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COUNCIL REGULATION (EU) No 833/2014

of 31 July 2014

concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine

(OJ L 229, 31.7.2014, p. 1)

Amended by:

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► <u>M1</u>	Council Regulation (EU) No 960/2014 of 8 September 2014	L 271	3	12.9.2014
► <u>M2</u>	Council Regulation (EU) No 1290/2014 of 4 December 2014	L 349	20	5.12.2014
► <u>M3</u>	Council Regulation (EU) 2015/1797 of 7 October 2015	L 263	10	8.10.2015
► <u>M4</u>	Council Regulation (EU) 2017/2212 of 30 November 2017	L 316	15	1.12.2017
► <u>M5</u>	Commission Implementing Regulation (EU) 2019/1163 of 5 July 2019	L 182	33	8.7.2019
► <u>M6</u>	Council Regulation (EU) 2022/262 of 23 February 2022	L 42 I	74	23.2.2022
► <u>M7</u>	Council Regulation (EU) 2022/328 of 25 February 2022	L 49	1	25.2.2022
► <u>M8</u>	Council Regulation (EU) 2022/334 of 28 February 2022	L 57	1	28.2.2022
► <u>M9</u>	Council Regulation (EU) 2022/345 of 1 March 2022	L 63	1	2.3.2022
► <u>M10</u>	Council Regulation (EU) 2022/350 of 1 March 2022	L 65	1	2.3.2022
► <u>M11</u>	Council Regulation (EU) 2022/394 of 9 March 2022	L 81	1	9.3.2022
► <u>M12</u>	Council Regulation (EU) 2022/428 of 15 March 2022	L 87 I	13	15.3.2022
► <u>M13</u>	Council Regulation (EU) 2022/576 of 8 April 2022	L 111	1	8.4.2022
► <u>M14</u>	Commission Implementing Regulation (EU) 2022/595 of 11 April 2022	L 114	60	12.4.2022
► <u>M15</u>	Council Regulation (EU) 2022/879 of 3 June 2022	L 153	53	3.6.2022

► <u>M16</u>	Council Regulation (EU) 2022/1269 of 21 July 2022	L 193	1	21.7.2022
► <u>M17</u>	Council Regulation (EU) 2022/1904 of 6 October 2022	L 259 I	3	6.10.2022
► <u>M18</u>	Council Regulation (EU) 2022/2367 of 3 December 2022	L 311 I	1	3.12.2022
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► <u>M22</u>	Council Regulation (EU) 2023/250 of 4 February 2023	L 32 I	1	4.2.2023
► <u>M23</u>	Commission Implementing Regulation (EU) 2023/251 of 4 February 2023	L 32 I	4	4.2.2023
► <u>M24</u>	Council Regulation (EU) 2023/427 of 25 February 2023	L 59 I	6	25.2.2023
► <u>M25</u>	Council Regulation (EU) 2023/1214 of 23 June 2023	L 159 I	1	23.6.2023

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- **C1** Corrigendum, OJ L 246, 21.8.2014, p. 59 (833/2014)
- **C2** Corrigendum, OJ L 114, 12.4.2022, p. 212 (2022/328)
- **C3** Corrigendum, OJ L 114, 12.4.2022, p. 214 (833/2014)
- **C4** Corrigendum, OJ L 119, 21.4.2022, p. 114 (2022/394)
- **C5** Corrigendum, OJ L 190, 19.7.2022, p. 191 (2022/576)
- **C6** Corrigendum, OJ L 202, 2.8.2022, p. 58 (2022/576)

▼B**COUNCIL REGULATION (EU) No 833/2014****of 31 July 2014****concerning restrictive measures in view of Russia's actions
destabilising the situation in Ukraine****▼M7***Article 1*

For the purposes of this Regulation, the following definitions apply:

- (a) ‘dual-use goods and technology’ means the items listed in Annex I to Regulation (EU) 2021/821 of the European Parliament and of the Council ⁽¹⁾;
- (b) ‘competent authorities’ means the competent authorities of the Member States as identified on the websites listed in Annex I;
- (c) ‘technical assistance’ means any technical support related to repairs, development, manufacture, assembly, testing, maintenance, or any other technical service, and may take forms such as instruction, advice, training, transmission of working knowledge or skills or consulting services, including verbal forms of assistance;
- (d) ‘brokering services’ means:
 - (i) the negotiation or arrangement of transactions for the purchase, sale or supply of goods and technology or of financial and technical services, including from a third country to any other third country, or
 - (ii) the selling or buying of goods and technology or of financial and technical services, including where they are located in third countries for their transfer to another third country;
- (e) ‘investment services’ means the following services and activities:
 - (i) reception and transmission of orders in relation to one or more financial instruments;
 - (ii) execution of orders on behalf of clients;
 - (iii) dealing on own account;
 - (iv) portfolio management;
 - (v) investment advice;
 - (vi) underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis;
 - (vii) placing of financial instruments without a firm commitment basis;
 - (viii) any service in relation to the admission to trading on a regulated market or trading on a multilateral trading facility;

⁽¹⁾ Regulation (EU) 2021/821 of the European Parliament and of the Council of 20 May 2021 setting up a Union regime for the control of exports, brokering, technical assistance, transit and transfer of dual-use items (recast) (OJ L 206, 11.6.2021, p. 1).

▼ M11

- (f) ‘transferable securities’ means the following classes of securities, including in the form of crypto-assets, which are negotiable on the capital market, with the exception of instruments of payment:

▼ M7

- (i) shares in companies and other securities equivalent to shares in companies, partnerships or other entities, and depositary receipts in respect of shares,
- (ii) bonds or other forms of securitised debt, including depositary receipts in respect of such securities,
- (iii) any other securities giving the right to acquire or sell any such transferable securities or giving rise to a cash settlement determined by reference to transferable securities;
- (g) ‘money-market instruments’ means those classes of instruments which are normally dealt in on the money market, such as treasury bills, certificates of deposit and commercial papers and excluding instruments of payment;
- (h) ‘credit institution’ means an undertaking, the business of which is to take deposits or other repayable funds from the public and to grant credit for its own account;
- (i) ‘territory of the Union’ means the territories of the Member States to which the Treaty is applicable, under the conditions laid down in the Treaty, including their airspace;
- (j) ‘central securities depository’ means a legal person as defined in point 1 of Article 2(1) of Regulation (EU) No 909/2014 of the European Parliament and of the Council ⁽¹⁾;
- (k) ‘deposit’ means a credit balance which results from funds left in an account or from temporary situations deriving from normal banking transactions and which a credit institution is required to repay under the legal and contractual conditions applicable, including a fixed-term deposit and a savings deposit, but excluding a credit balance where:
- (i) its existence can only be proven by a financial instrument as defined in Article 4(1)(15) of Directive 2014/65/EU of the European Parliament and of the Council ⁽²⁾, unless it is a savings product which is evidenced by a certificate of deposit made out to a named person and which exists in a Member State on 2 July 2014;
- (ii) its principal is not repayable at par;
- (iii) its principal is only repayable at par under a particular guarantee or agreement provided by the credit institution or a third party;

⁽¹⁾ Regulation (EU) No 909/2014 of the European Parliament and of the Council of 23 July 2014 on improving securities settlement in the European Union and on central securities depositories and amending Directives 98/26/EC and 2014/65/EU and Regulation (EU) No 236/2012 (OJ L 257, 28.8.2014, p. 1).

⁽²⁾ Directive 2014/65/EU of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments and amending Directive 2002/92/EC and Directive 2011/61/EU (OJ L 173, 12.6.2014, p. 349).

▼ M7

- (l) ‘investor citizenship schemes’ (or ‘golden passports’) means the procedures put in place by a Member State, which allow third-country nationals to acquire its nationality in exchange for pre-determined payments and investments;
- (m) ‘investor residence schemes’ (or ‘golden visas’) means the procedures put in place by a Member State, which allow third-country nationals to obtain a residence permit in a Member State in exchange for pre-determined payments and investments;
- (n) ‘trading venue’, as defined in Article 4(1)(24) of Directive 2014/65/EU, means a regulated market, a multilateral trading facility (MTF) or an organised trading facility (OTF);
- (o) ‘financing or financial assistance’ means any action, irrespective of the particular means chosen, whereby the person, entity or body concerned, conditionally or unconditionally, disburses or commits to disburse its own funds or economic resources, including but not limited to grants, loans, guarantees, suretyships, bonds, letters of credit, supplier credits, buyer credits, import or export advances and all types of insurance and reinsurance, including export credit insurance; payment as well as terms and conditions of payment of the agreed price for a good or a service, made in line with normal business practice, do not constitute financing or financial assistance;
- (p) ‘partner country’ means a country applying a set of export control measures substantially equivalent to those set out in this Regulation, as identified in Annex VIII;
- (q) ‘consumer communication devices’ means devices used by private individuals such as personal computers and peripherals (including hard drives and printers), mobile telephones, smart televisions, memory devices (USB drives), and consumer software for all of these items;

▼ M8

- (r) ‘Russian air carrier’ means an air transport undertaking holding a valid operating licence or equivalent issued by the competent authorities of the Russian Federation;

▼ M12

- (s) ‘credit rating’ means an opinion regarding the creditworthiness of an entity, a debt or financial obligation, debt security, preferred share or other financial instrument, or of an issuer of such a debt or financial obligation, debt security, preferred share or other financial instrument, issued using an established and defined ranking system of rating categories;
- (t) ‘credit rating activities’ means data and information analysis and the evaluation, approval, issuing and review of credit ratings;

▼ M12

- (u) ‘energy sector’ means a sector covering the following activities with the exception of civil nuclear related activities:
 - (i) the exploration, production, distribution within Russia or mining of crude oil, natural gas or solid fossil fuels, the refining of fuels, the liquefaction of natural gas or regasification;
 - (ii) the manufacture or distribution within Russia of solid fossil fuel products, refined petroleum products or gas; or
 - (iii) the construction of facilities or installation of equipment for, or the provision of services, equipment or technology for, activities related to power generation or electricity production;

▼ M13

- (v) ‘public procurement Directives’ means Directives 2014/23/EU ⁽¹⁾, 2014/24/EU ⁽²⁾, 2014/25/EU ⁽³⁾ and 2009/81/EC ⁽⁴⁾ of the European Parliament and of the Council;
- (w) ‘road transport undertaking’ means any natural or legal person, entity or body engaged with a commercial purpose in the transport of freight by means of motor vehicles or combinations of vehicles;

▼ M20

- (x) ‘mining and quarrying sector’ means a sector covering the location, extraction, management and processing activities relating to non-energy producing materials;

▼ M24

- (y) ‘critical entities’ means entities as defined in Article 2(1) of Directive (EU) 2022/2557 of the European Parliament and of the Council ⁽⁵⁾;
- (z) ‘critical infrastructure’ means infrastructure as defined in Article 2(a) of Council Directive 2008/114/EC ⁽⁶⁾ and Article 2(4) of Directive (EU) 2022/2557;

⁽¹⁾ Directive 2014/23/EU of the European Parliament and of the Council of 26 February 2014 on the award of concession contracts (OJ L 94, 28.3.2014, p. 1).

⁽²⁾ Directive 2014/24/EU of the European Parliament and of the Council of 26 February 2014 on public procurement and repealing Directive 2004/18/EC (OJ L 94, 28.3.2014, p. 65).

⁽³⁾ Directive 2014/25/EU of the European Parliament and of the Council of 26 February 2014 on procurement by entities operating in the water, energy, transport and postal services sectors and repealing Directive 2004/17/EC (OJ L 94, 28.3.2014, p. 243).

⁽⁴⁾ Directive 2009/81/EC of the European Parliament and of the Council of 13 July 2009 on the coordination of procedures for the award of certain works contracts, supply contracts and service contracts by contracting authorities or entities in the fields of defence and security, and amending Directives 2004/17/EC and 2004/18/EC (OJ L 216, 20.8.2009, p. 76).

⁽⁵⁾ Directive (EU) 2022/2557 of the European Parliament and of the Council of 14 December 2022 on the resilience of critical entities and repealing Council Directive 2008/114/EC (OJ L 333, 27.12.2022, p. 164).

⁽⁶⁾ Council Directive 2008/114/EC of 8 December 2008 on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection (OJ L 345, 23.12.2008, p. 75).

▼ M24

- (za) ‘European critical infrastructure’ means infrastructure as defined in Article 2(b) of Directive 2008/114/EC;
- (zb) ‘owners or operators of critical infrastructures’ means those entities responsible for investments in, and/or day- to-day operation of, a particular asset, system or part thereof designated as critical infrastructure or European critical infrastructure.

▼ M7*Article 2*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, dual-use goods and technology, whether or not originating in the Union, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M24

1a. The transit via the territory of Russia of the dual-use goods and technology, as referred to in paragraph 1, exported from the Union shall be prohibited.

▼ M7

- 2. It shall be prohibited to:
 - (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia;
 - (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7

- 3. Without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the prohibitions in paragraphs 1 and 2 of this Article shall not apply to the sale, supply, transfer or export of dual-use goods and technology or to the related provision of technical and financial assistance, for non-military use and for a non-military end user, intended for:
 - (a) humanitarian purposes, health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment or as a response to natural disasters;
 - (b) medical or pharmaceutical purposes;
 - (c) temporary export of items for use by news media;
 - (d) software updates;

▼ M7

- (e) use as consumer communication devices; or

▼ M16

▼ M7

- (g) personal use of natural persons travelling to Russia or members of their immediate families travelling with them, and limited to personal effects, household effects, vehicles or tools of trade owned by those individuals and not intended for sale.

▼ M16

With the exception of point (g) of the first subparagraph, the exporter shall declare in the customs declaration that the items are being exported under the relevant exception set out in this paragraph and shall notify the competent authority of the Member State where the exporter is resident or established of the first use of the relevant exception within 30 days from the date when the first export took place.

▼ M24

3a. Without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the prohibition in paragraph 1a of this Article shall not apply to the transit via the territory of Russia of dual-use goods and technology intended for the purposes set out in points (a) to (e) of paragraph 3 of this Article.

▼ M7

4. By way of derogation from paragraphs 1 and 2 of this Article, and without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the competent authorities may authorise the sale, supply, transfer or export of dual-use goods and technology or the provision of related technical or financial assistance, for non-military use and for a non-military end user, after having determined that such goods or technology or the related technical or financial assistance are:

- (a) intended for cooperation between the Union, the governments of Member States and the government of Russia in purely civilian matters;
- (b) intended for intergovernmental cooperation in space programmes;
- (c) intended for the operation, maintenance, fuel retreatment and safety of civil nuclear capabilities, as well as civil nuclear cooperation, in particular in the field of research and development;
- (d) intended for maritime safety;

▼ M13

- (e) intended for civilian non-publicly available electronic communications networks which are not the property of an entity that is publicly controlled or with over 50 % public ownership;

▼ M7

- (f) intended for the exclusive use of entities owned, or solely or jointly controlled by a legal person, entity or body which is incorporated or constituted under the law of a Member State or of a partner country;

▼ M7

- (g) intended for the diplomatic representations of the Union, Member States and partner countries, including delegations, embassies and missions;

▼ M16

- (h) intended for ensuring cyber-security and information security for natural and legal persons, entities and bodies in Russia except for its government and undertakings directly or indirectly controlled by that government.

▼ M24

- 4a. By way of derogation from paragraph 1a, and without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the competent authorities may authorise the transit via the territory of Russia of dual-use goods and technology after having determined that such goods or technology are intended for the purposes set out in points (b), (c), (d), and (h) of paragraph 4 of this Article.

▼ M7

- 5. By way of derogation from paragraphs 1 and 2 of this Article, and without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the competent authorities may authorise the sale, supply, transfer or export of dual-use goods and technology or the provision of related technical or financial assistance, for non-military use and for a non-military end-user, after having determined that such goods or technology or the related technical or financial assistance are due under contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such a contract, provided that the authorisation is requested before 1 May 2022.

- 6. All authorisations required under this Article shall be granted by the competent authorities in accordance with the rules and procedures laid down in Regulation (EU) 2021/821, which shall apply *mutatis mutandis*. The authorisation shall be valid throughout the Union.

- 7. When deciding on requests for authorisations referred to in paragraphs 4 and 5, the competent authorities shall not grant an authorisation if they have reasonable grounds to believe that:

▼ M13

- (i) the end-user might be a military end-user, a natural or legal person, entity or body in Annex IV or that the goods might have a military end-use, unless the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is allowed under paragraph 1(a) of Article 2b;
- (ii) the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is intended for aviation or the space industry, unless such sale, supply, transfer or export or the provision of related technical or financial assistance is allowed under paragraph 4(b); or

▼ M12

- (iii) the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is intended for the energy sector, unless such a sale, supply, transfer or export or the related technical or financial assistance is allowed under the exceptions referred to in paragraphs 3 to 6 of Article 3.

▼ M7

8. The competent authorities may annul, suspend, modify or revoke an authorisation which they have granted pursuant to paragraphs 4 and 5 if they deem that such annulment, suspension, modification or revocation is necessary for the effective implementation of this Regulation.

Article 2a

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, goods and technology which might contribute to Russia's military and technological enhancement, or the development of the defence and security sector, as listed in Annex VII, whether or not originating in the Union, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M25

1a. The transit via the territory of Russia of goods and technology which might contribute to Russia's military and technological enhancement or to the development of its defence and security sector, as listed in Annex VII, exported from the Union, shall be prohibited.

▼ M7

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of these goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;
- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7

3. The prohibitions in paragraphs 1 and 2 shall not apply to the sale, supply, transfer or export of the goods and technology referred to in paragraph 1 or to the related provision of technical and financial assistance, for non-military use and for a non-military end-user, intended for:

▼ M7

- (a) humanitarian purposes, health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment, or as a response to natural disasters;
- (b) medical or pharmaceutical purposes;
- (c) temporary export of items for use by news media;
- (d) software updates;
- (e) use as consumer communication devices; or

▼ M16

▼ M7

- (g) personal use of natural persons travelling to Russia or members of their immediate families travelling with them, and limited to personal effects, household effects, vehicles or tools of trade owned by those individuals and not intended for sale.

▼ M16

With the exception of point (g) of the first subparagraph, the exporter shall declare in the customs declaration that the items are being exported under the relevant exception set out in this paragraph and shall notify the competent authority of the Member State where the exporter is resident or established of the first use of the relevant exception within 30 days from the date when the first export took place.

▼ M25

3a. The prohibition in paragraph 1a shall not apply to the transit via the territory of Russia of goods and technology which might contribute to Russia's military and technological enhancement or to the development of its defence and security sector, as listed in Annex VII, intended for the purposes set out in points (a) to (e) of paragraph 3.

▼ M7

4. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the sale, supply, transfer or export of the goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance, for non-military use and for a non-military end-user, after having determined that such goods or technology or the related technical or financial assistance are:

- (a) intended for cooperation between the Union, the governments of Member States and the government of Russia in purely civilian matters;
- (b) intended for intergovernmental cooperation in space programmes;
- (c) intended for the operation, maintenance, fuel retreatment and safety of civil nuclear capabilities, as well as civil nuclear cooperation, in particular in the field of research and development;
- (d) intended for maritime safety;

▼ M13

- (e) intended for civilian non-publicly available electronic communications networks which are not the property of an entity that is publicly controlled or with over 50 % public ownership;

▼ M7

- (f) intended for the exclusive use of entities owned, or solely or jointly controlled by a legal person, entity or body which is incorporated or constituted under the law of a Member State or of a partner country;
- (g) intended for the diplomatic representations of the Union, Member States and partner countries, including delegations, embassies and missions;

▼ M16

- (h) intended for ensuring cyber-security and information security for natural and legal persons, entities and bodies in Russia except for its government and undertakings directly or indirectly controlled by that government; or

▼ M25

- (i) intended for the exclusive use and under the full control of the authorising Member State and in order to fulfil its maintenance obligations in areas which are under a long-term lease agreement between that Member State and the Russian Federation.

4a. By way of derogation from paragraph 1a, the competent authorities may authorise the transit via the territory of Russia of goods and technology which might contribute to Russia's military and technological enhancement or to the development of its defence and security sector, as listed in Annex VII, after having determined that such goods or technology are intended for the purposes set out in points (b), (c), (d), and (h) of paragraph 4.

▼ M7

5. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the sale, supply, transfer or export of the goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance, for non-military use and for a non-military end-user, after having determined that such goods or technology or the related technical or financial assistance are due under contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such a contract, provided that the authorisation is requested before 1 May 2022.

6. All authorisations required under this Article shall be granted by the competent authorities in accordance with the rules and procedures laid down in Regulation (EU) 2021/821, which shall apply *mutatis mutandis*. The authorisation shall be valid throughout the Union.

7. When deciding on requests for authorisations referred to in paragraphs 4 and 5, the competent authorities shall not grant an authorisation if they have reasonable grounds to believe that:

▼ M13

- (i) the end-user might be a military end-user, a natural or legal person, entity or body in Annex IV or that the goods might have a military end-use, unless the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is allowed under paragraph 1 of Article 2b;
- (ii) the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is intended for aviation or the space industry, unless such sale, supply, transfer or export or the provision of related technical or financial assistance is allowed under paragraph 4(b); or

▼ M12

- (iii) the sale, supply, transfer or export of goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance is intended for the energy sector, unless such a sale, supply, transfer or export or the related technical or financial assistance is allowed under the exceptions referred to in paragraphs 3 to 6 of Article 3.

▼ M7

8. The competent authorities may annul, suspend, modify or revoke an authorisation which they have granted pursuant to paragraphs 4 and 5 if they deem that such annulment, suspension, modification or revocation is necessary for the effective implementation of this Regulation.

▼ M17*Article 2aa***▼ M25**

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, firearms, their parts and essential components and ammunition as listed in Annex I to Regulation (EU) No 258/2012 of the European Parliament and of the Council⁽¹⁾ and firearms and other arms as listed in Annex XXXV to this Regulation, whether or not originating in the Union, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M24

1a. The transit via the territory of Russia of firearms, their parts and essential components and ammunition, as referred to in paragraph 1, exported from the Union shall be prohibited.

▼ M17

- 2. It shall be prohibited to:
 - (a) provide technical assistance, brokering services or other services related to the goods referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia;

⁽¹⁾ Regulation (EU) No 258/2012 of the European Parliament and of the Council of 14 March 2012 implementing Article 10 of the United Nations' Protocol against the illicit manufacturing of and trafficking in firearms, their Parts and components and ammunition, supplementing the United Nations Convention against Transnational Organised Crime (UN Firearms Protocol), and establishing export authorisation, and import and transit measures for firearms, their parts and components and ammunition (OJ L 94, 30.3.2012, p. 1).

▼ M17

- (b) provide financing or financial assistance related to the goods referred to in paragraph 1 for any sale, supply, transfer or export of those goods, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7*Article 2b*▼ M12

1. With regard to the natural or legal persons, entities or bodies listed in Annex IV, by way of derogation from Article 2(1) and (2) and Article 2a(1) and (2), and without prejudice to the authorisation requirements pursuant to Regulation (EU) 2021/821, the competent authorities may only authorise the sale, supply, transfer or export of dual use goods and technology, and goods and technology listed in Annex VII, or the provision of related technical or financial assistance after having determined that:

▼ M7

- (a) such goods or technology or the related technical or financial assistance are necessary for the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment; or
- (b) such goods or technology or the related technical or financial assistance are due under contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such a contract, provided that the authorisation is requested before 1 May 2022.

2. All authorisations required under this Article shall be granted by the competent authorities of the Member State in accordance with the rules and procedures laid down in Regulation (EU) 2021/821, which shall apply *mutatis mutandis*. The authorisation shall be valid throughout the Union.

3. The competent authorities may annul, suspend, modify or revoke an authorisation which they have granted pursuant to paragraph 1 if they deem that such annulment, suspension, modification or revocation is necessary for the effective implementation of this Regulation.

Article 2c

1. The notification to the competent authority referred to in Articles 2(3) and 2a(3) shall be submitted by electronic means, whenever possible, on forms containing at least all the elements of, and in the order provided for in, the models set out in Annex IX.

▼ M7

2. All authorisations referred to in Articles 2, 2a and 2b shall be issued by electronic means, whenever possible, on forms containing at least all the elements of, and in the order provided for in, the models set out in Annex IX.

*Article 2d***▼ M25**

1. The competent authorities shall exchange information on the application of Articles 2, 2a and 2b with the other Member States and the Commission, including on any authorisation granted or denied and, in the event of suspected forum shopping or other cases as appropriate, on requests for authorisation received.

The competent authorities shall exchange information on the enforcement of Articles 2, 2a and 2b with the other Member States and the Commission, including on related infringements and penalties, as well as best practices of national enforcement authorities and the detection and prosecution of unauthorised exports. The exchange of information shall be carried out using the electronic system provided pursuant to Article 23(6) of Regulation (EU) 2021/821.

▼ M7

2. Information received as a result of the application of this Article shall be used only for the purpose for which it was requested, including the exchanges mentioned in paragraph 4.

Member States and the Commission shall ensure the protection of confidential information acquired in application of this Article in accordance with Union law and the respective national law.

Member States and the Commission shall ensure that classified information provided or exchanged under this Article is not downgraded or declassified without the prior written consent of the originator.

3. Before a Member State grants an authorisation in accordance with Articles 2, 2a and 2b for a transaction which is essentially identical to a transaction which is the subject of a still valid denial issued by another Member State or by other Member States, it shall first consult the Member State or Member States which issued the denial. If, following such consultations, the Member State concerned decides to grant an authorisation, it shall inform the other Member States and the Commission thereof, providing all relevant information to explain the decision.

▼ M11

3a. When a Member State grants an authorisation in accordance with Articles 2(4)(d), 2a(4)(d) and 3f(4) for the sale, supply, transfer or export of the goods and technology intended for maritime safety, it shall inform the other Member States and the Commission within two weeks of the authorisation.

▼ M9

4. The Commission, in consultation with the Member States shall, where appropriate and on the basis of reciprocity, exchange information with partner countries, with a view to supporting the effectiveness of export control measures under this Regulation and the consistent application of export control measures applied by partner countries.

▼ M7*Article 2e*

1. It shall be prohibited to provide public financing or financial assistance for trade with, or investment in, Russia.
2. The prohibition in paragraph 1 shall not apply to:
 - (a) binding financing or financial assistance commitments established prior to 26 February 2022;

▼ M11

- (b) the provision of public financing or financial assistance up to the total value of 10 000 000 EUR per project benefiting small and medium-sized enterprises established in the Union; or

▼ M7

- (c) the provision of public financing or financial assistance for trade in food, and for agricultural, medical or humanitarian purposes.

▼ M9

3. It shall be prohibited to invest, participate or otherwise contribute to projects co-financed by the Russian Direct Investment Fund.
4. By way of derogation from paragraph 3, the competent authorities may authorise, under such conditions as they deem appropriate, an investment participation in, or contribution to, projects co-financed by the Russian Direct Investment Fund, after having determined that such an investment participation or contribution is due under contracts concluded before 2 March 2022 or ancillary contracts necessary for the execution of such contracts.

▼ M10*Article 2f*

1. It shall be prohibited for operators to broadcast or to enable, facilitate or otherwise contribute to broadcast, any content by the legal persons, entities or bodies listed in Annex XV, including through transmission or distribution by any means such as cable, satellite, IP-TV, internet service providers, internet video-sharing platforms or applications, whether new or pre-installed.
2. Any broadcasting licence or authorisation, transmission and distribution arrangement with the legal persons, entities or bodies listed in Annex XV shall be suspended.

▼ M15

3. It shall be prohibited to advertise products or services in any content produced or broadcast by the legal persons, entities or bodies listed in Annex XV, including through transmission or distribution by any of the means referred to in paragraph 1.

▼ M12*Article 3*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, goods or technology, as listed in Annex II, whether or not originating in the Union, to any natural or legal person, entity or body in Russia, including its Exclusive Economic Zone and Continental Shelf, or for use in Russia, including its Exclusive Economic Zone and Continental Shelf.

▼ M12

2. It shall be prohibited to
 - (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;
 - (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M12

3. The prohibitions in paragraphs 1 and 2 shall not apply to the sale, supply, transfer or export of goods or technology, or to the provision of technical or financial assistance, necessary for:

▼ M15

- (a) the transport of natural gas and oil, including refined petroleum products, unless prohibited under Article 3m or 3n, from or through Russia into the Union; or

▼ M12

- (b) the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment.

4. The prohibitions in paragraphs 1 and 2 shall not apply to the execution until 17 September 2022 of an obligation arising from a contract concluded before 16 March 2022, or ancillary contracts necessary for the execution of such a contract, provided that the competent authority has been informed at least five working days in advance.

5. The prohibitions in paragraph 2 shall not apply to the provision of insurance or reinsurance to any legal person, entity or body that is incorporated or constituted under the law of a Member State with regard to its activities outside the energy sector in Russia.

6. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export and the provision of technical or financial assistance, after having determined that:

- (a) it is necessary for ensuring critical energy supply within the Union;
or

▼ M12

- (b) it is intended for the exclusive use of entities owned, or solely or jointly controlled by a legal person, entity or body which is incorporated or constituted under the law of a Member State.

7. The Member State or Member States concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 6 within two weeks of the authorisation.

▼ M20*Article 3a*

1. It shall be prohibited to:

- (a) acquire any new or extend any existing participation in any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the energy sector in Russia;
- (b) grant or be part of any arrangement to grant any new loan or credit or otherwise provide financing, including equity capital, to any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the energy sector in Russia, or for the documented purpose of financing such a legal person, entity or body;
- (c) create any new joint venture with any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the energy sector in Russia;
- (d) provide investment services directly related to the activities referred to in points (a), (b) and (c).

2. It shall be prohibited to:

- (a) acquire any new or extend any existing participation in any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the mining and quarrying sector in Russia;
- (b) grant or be part of any arrangement to grant any new loan or credit or otherwise provide financing, including equity capital, to any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the mining and quarrying sector in Russia, or for the documented purpose of financing such a legal person, entity or body;
- (c) create any new joint venture with any legal person, entity or body incorporated or constituted under the law of Russia or any other third country and operating in the mining and quarrying sector in Russia;
- (d) provide investment services directly related to the activities referred to in points (a), (b) and (c).

▼ M20

3. By way of derogation from paragraph 1, the competent authorities may authorise, under such conditions as they deem appropriate, any activity referred to in paragraph 1 after having determined that:

- (a) it is necessary to ensure critical energy supply within the Union, as well as the transport of natural gas and oil, including refined petroleum products, unless prohibited under Article 3m or 3n, from or through Russia into the Union; or
- (b) it exclusively concerns a legal person, entity or body operating in the energy sector in Russia owned by a legal person, entity or body which is incorporated or constituted under the law of a Member State.

4. The Member State or Member States concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 3 within two weeks of the authorisation.

5. The prohibition in paragraph 2 shall not apply to mining and quarrying activities that yield their highest value from, or have as their primary objective, the production of any of the materials listed in Annex XXX.

▼ M7*Article 3b***▼ M13**

1. It shall be prohibited to sell, supply, transfer, or export, directly or indirectly, goods and technology suited for use in oil refining and liquefaction of natural gas, as listed in Annex X, whether or not originating in the Union, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.
- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any person, entity or body in Russia or for use in Russia.

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7

3. The prohibitions in paragraphs 1 and 2 shall not apply to the execution until 27 May 2022 of contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such contracts.

4. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export of the goods and technology listed in Annex X or the provision of related technical or financial assistance, after having determined that such goods or technology or the provision of related technical or financial assistance are necessary for the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment.

In duly justified cases of emergency, the sale, supply, transfer or export may proceed without prior authorisation, provided that the exporter notifies the competent authority within five working days after the sale, supply, transfer or export has taken place, providing detail about the relevant justification for the sale, supply, transfer or export without prior authorisation.

▼ M16

5. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 4 within two weeks of the authorisation.

▼ M7*Article 3c***▼ M13**

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, goods and technology suited for use in aviation or the space industry, as listed in Annex XI, and jet fuel and fuel additives as listed in Annex XX, whether or not originating in the Union, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M25

1a. The transit via the territory of Russia of goods and technology suited for use in aviation or the space industry, as listed in Annex XI, and of jet fuel and fuel additives, as listed in Annex XX, exported from the Union, shall be prohibited.

▼ M7

2. It shall be prohibited to provide insurance and reinsurance, directly or indirectly, in relation to goods and technology listed in Annex XI to any person, entity or body in Russia or for use in Russia.

3. It shall be prohibited to provide any one or any combination of the following activities: overhaul, repair, inspection, replacement, modification or defect rectification of an aircraft or component, with the exception of pre-flight inspection, in relation to the goods and technology listed in Annex XI, directly or indirectly, to any natural or legal person, entity or body in Russia or for use in Russia.

4. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M7

- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M17

5. With regard to the goods listed in Part A of Annex XI, the prohibitions in paragraphs 1 and 4 shall not apply to the execution until 28 March 2022 of contracts concluded before 26 February 2022, or of ancillary contracts necessary for the execution of such contracts.

5a. With regard to the goods listed in Part B of Annex XI, the prohibitions in paragraphs 1 and 4 shall not apply to the execution until 6 November 2022 of contracts concluded before 7 October 2022, or of ancillary contracts necessary for the execution of such contracts.

▼ M20

5b. With regard to the goods listed in Part C of Annex XI, the prohibitions in paragraphs 1 and 4 shall not apply to the execution until 16 January 2023 of contracts concluded before 17 December 2022, or of ancillary contracts necessary for the execution of such contracts.

▼ M24

5c. With regard to the goods listed in Part D of Annex XI, the prohibitions in paragraphs 1 and 4 shall not apply to the execution until 27 March 2023 of contracts concluded before 26 February 2023, or of ancillary contracts necessary for the execution of such contracts.

▼ M13

6. By way of derogation from paragraphs 1 and 4, the national competent authorities may authorise, under such conditions as they deem appropriate, the execution of an aircraft financial lease concluded before 26 February 2022 after having determined that:

- (a) it is strictly necessary to ensure lease re-payments to a legal person, entity or body incorporated or constituted under the law of a Member State which does not fall under any of the restrictive measures provided for in this Regulation; and
- (b) no economic resources will be made available to the Russian counterpart, with the exception of the transfer of ownership of the aircraft after full reimbursement of the financial lease.

▼ M17

6a. By way of derogation from paragraphs 1 and 4, the competent authorities may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export of the goods listed in Part B of Annex XI, or related technical assistance, brokering services, financing or financial assistance, after having determined that it is necessary for the production of titanium goods required in the aeronautic industry, for which no alternative supply is available.

▼ M20

6b. By way of derogation from paragraph 4, the competent authorities may authorise, under such conditions as they deem appropriate, the provision of technical assistance, related to the use of the goods and technology referred to in paragraph 1, after having determined that the provision of such technical assistance is necessary for avoiding collision between satellites, or their unintended re-entry into the atmosphere.

6c. By way of derogation from paragraphs 1 and 4, the competent authorities may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export of the goods falling under CN codes 8517 71 00, 8517 79 00 and 9026 00 00 listed in Part B of Annex XI, or related technical assistance, brokering services, financing or financial assistance, after having determined that it is necessary for medical or pharmaceutical purposes, or for humanitarian purposes, such as delivering or facilitating the delivery of assistance, including medical supplies, food, or the transfer of humanitarian workers and related assistance or for evacuations.

When deciding on requests for authorisations for medical, pharmaceutical or humanitarian purposes in accordance with this paragraph, the national competent authorities shall not grant an authorisation for exports to any natural or legal person, entity or body in Russia or for use in Russia, if they have reasonable grounds to believe that the goods might have a military end-use.

▼ M25

6d. By way of derogation from paragraph 1a, the competent authorities may authorise the transit via the territory of Russia of goods and technology suited for use in aviation or the space industry, as listed in Annex XI, and of jet fuels and fuel additives as listed in Annex XX, after having determined that such goods or technology are intended for the purposes set out in paragraphs 6a, 6b and 6c of this Article.

6e. By way of derogation from paragraph 1, the competent authorities may authorise the sale, supply, transfer or export of the goods listed in Part B of Annex XI, if the goods are intended for the exclusive use and under the full control of the authorising Member State and in order to fulfil its maintenance obligations in areas which are under a long-term lease agreement between that Member State and the Russian Federation.

▼ M13

7. The Member State concerned shall inform the other Member States and the Commission of any authorisations granted under this Article within two weeks of the authorisation.

8. The prohibition in paragraph 1 shall be without prejudice to Articles 2(4)(b) and 2a(4)(b).

▼ M16

9. The prohibition in paragraph 4 point (a) shall not apply to the exchange of information aimed at establishing technical standards in the framework of the International Civil Aviation Organization in relation to goods and technology referred to in paragraph 1.

▼ **M8***Article 3d*

1. It shall be prohibited for any aircraft operated by Russian air carriers, including as a marketing carrier in code-sharing or blocked-space arrangements, or for any Russian registered aircraft, or for any non-Russian-registered aircraft which is owned or chartered, or otherwise controlled by any Russian natural or legal person, entity or body, to land in, take off from or overfly the territory of the Union.
2. Paragraph 1 shall not apply in the case of an emergency landing or an emergency overflight.
3. By way of derogation from paragraph 1, the competent authorities may authorise an aircraft to land in, take off from, or overfly, the territory of the Union if the competent authorities have determined that such landing, take-off or overflight is required for humanitarian purposes or for any other purpose consistent with the objectives of this Regulation.
4. The Member State or Member States concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 3 within two weeks of the authorisation.

▼ **M25**

5. Aircraft operators of non-scheduled flights between Russia and the Union, operated directly or via a third country, shall notify prior to their operation, and at least 48 hours in advance, all relevant information concerning the flight to the competent authorities of the Member State of departure or destination.

▼ **M24**

6. Upon refusal of a flight notified in accordance with paragraph 5, the Member State concerned shall immediately inform the other Member States, the Network Manager and the Commission.

▼ **M8***Article 3e*▼ **M12**

1. The Network Manager for air traffic management network functions of the single European sky shall support the Commission and the Member States in ensuring the implementation of, and compliance with, Article 3d. The Network Manager shall, in particular, reject all flight plans filed by aircraft operators indicating an intent to carry out activities over the territory of the Union that constitute a violation of this Regulation, such that the pilot is not permitted to fly.

▼ **M8**

2. The Network Manager shall regularly supply to the Commission and the Member States, based on the analysis of flight plans, reports on the implementation of Article 3d.

▼ **M13***Article 3ea*▼ **M16**

1. It shall be prohibited to provide access, after 16 April 2022, to ports and, after 29 July 2022, to locks in the territory of the Union, to any vessel registered under the flag of Russia, with the exception of access to locks for the purpose of leaving the territory of the Union.

▼ M17

1a. The prohibition in paragraph 1 shall also apply, after 8 April 2023, to any vessel certified by the Russian Maritime Register of Shipping.

▼ M13

2. Paragraph 1 shall apply to vessels that have changed their Russian flag or their registration, to the flag or register of any other State after 24 February 2022.

▼ M17

3. For the purposes of this Article, with the exception of paragraph 1a, a 'vessel' means:

▼ M13

- (a) a ship falling within the scope of the relevant international conventions;
- (b) a yacht, of 15 metres in length or more, which does not carry cargo and carrying no more than 12 passengers; or
- (c) recreational craft or personal watercraft as defined in Directive 2013/53/EU of the European Parliament and of the Council ⁽¹⁾.

▼ M17

4. Paragraphs 1 and 1a shall not apply in the case of a vessel in need of assistance seeking a place of refuge, of an emergency port call for reasons of maritime safety, or for saving life at sea.

5. By way of derogation from paragraphs 1 and 1a, the competent authorities may authorise a vessel to access a port or lock, under such conditions as they deem appropriate, after having determined that the access is necessary for:

▼ M15

- (a) unless prohibited under Article 3m or 3n, the purchase, import or transport into the Union of natural gas and oil, including refined petroleum products, titanium, aluminium, copper, nickel, palladium and iron ore, as well as certain chemical and iron products as listed in Annex XXIV;

▼ M13

- (b) the purchase, import or transport of pharmaceutical, medical, agricultural and food products, including wheat and fertilisers whose import, purchase and transport is allowed under this Regulation;
- (c) humanitarian purposes; or
- (d) transport of nuclear fuel and other goods strictly necessary for the functioning of civil nuclear capabilities.

▼ M25

⁽¹⁾ Directive 2013/53/EU of the European Parliament and of the Council of 20 November 2013 on recreational craft and personal watercraft and repealing Directive 94/25/EC (OJ L 354, 28.12.2013, p. 90)

▼ M16

5a. By way of derogation from paragraph 2, the competent authorities may authorise vessels that have changed their Russian flag or their registration, to the flag or register of any other State prior to 16 April 2022, to access a port or a lock, under such conditions as they deem appropriate, after having determined that:

- (a) a Russian flag or registration was required by contract; and
- (b) the access is necessary for the unloading of goods strictly necessary for the completion of renewable energy projects in the Union, provided that the import of such goods is not otherwise prohibited under this Regulation.

▼ M17

5b. By way of derogation from paragraph 2, the competent authorities may authorise, under such conditions as they deem appropriate, a vessel to access a port or lock provided that it:

- (a) has flown the Russian Federation flag under a bareboat charter registration initially effected prior to 24 February 2022;
- (b) has resumed its right to fly the flag of the underlying Member State registry before 31 January 2023; and
- (c) is not owned, chartered, operated or otherwise controlled by a Russian national or any legal person, entity or body incorporated or constituted under the law of the Russian Federation.

▼ M20

6. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 5, 5a and 5b within two weeks of the authorisation.

▼ M25*Article 3eb*

1. It shall be prohibited, as of 24 July 2023, to provide access to ports and locks in the territory of the Union, by any vessel performing ship-to-ship transfers, at any point of the voyage to a Member State's ports or locks, if the competent authority has reasonable cause to suspect that the vessel is in breach of the prohibitions set out in Article 3m(1) and (2) and Article 3n(1) and (4).

2. A competent authority shall not grant access if a vessel does not notify the competent authority at least 48 hours in advance about a ship-to-ship transfer occurring within the Exclusive Economic Zone of a Member State or within 12 nautical miles from the baseline of that Member State's coast.

3. Paragraphs 1 and 2 shall not apply in the case of a vessel in need of assistance seeking a place of refuge, of an emergency port call for reasons of maritime safety, or for saving life at sea.

4. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise a vessel to access a port or lock in the territory of the Union, under such conditions as they deem appropriate, after having determined that such access is necessary for humanitarian purposes.

▼M25

5. Upon refusal of a port access call in accordance with paragraphs 1 and 2, the competent authorities concerned shall immediately inform the other competent authorities of the Member States. The Member State concerned shall inform the other Member States and the Commission without delay.

6. For the purposes of paragraphs 1 and 2, the competent authorities shall use, in addition to any national system and information, the integrated maritime information available in the Union Maritime Information and Exchange System (SafeSeaNet) established in accordance with Directive 2002/59/EC of the European Parliament and of the Council ⁽¹⁾.

Article 3ec

1. It shall be prohibited, as of 24 July 2023, to provide access to ports and locks in the territory of the Union by any vessel which the competent authority has reasonable cause to suspect of illegally interfering with, switching off or otherwise disabling its shipborne automatic identification system at any point of the voyage to a Member State's ports or locks, in breach of SOLAS Regulation V/19, point 2.4, when transporting crude oil or petroleum products subject to the prohibitions set out in Article 3m(1) and (2) and Article 3n(1) and (4).

2. Paragraph 1 shall not apply in the case of a vessel in need of assistance seeking a place of refuge, of an emergency port call for reasons of maritime safety, or for saving life at sea.

3. By way of derogation from paragraph 1, the competent authorities may authorise a vessel to access a port or lock in the territory of the Union, under such conditions as they deem appropriate, after having determined that such access is necessary for humanitarian purposes.

4. Upon refusal of a port access call in accordance with paragraph 1, the competent authorities concerned shall immediately inform the other competent authorities of the Member States. The Member State concerned shall inform the other Member States and the Commission without delay.

5. For the purposes of paragraph 1, the competent authorities shall use, in addition to any national system and information, the integrated maritime information available in the Union Maritime Information and Exchange System (SafeSeaNet) established in accordance with Directive 2002/59/EC.

▼M11*Article 3f*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, maritime navigation goods and technology, as listed in Annex XVI, whether or not originating in the Union, to any natural or legal person, entity or body in Russia, for use in Russia, or for the placing on board of a Russian-flagged vessel.

⁽¹⁾ Directive 2002/59/EC of the European Parliament and of the Council of 27 June 2002 establishing a Community vessel traffic monitoring and information system and repealing Council Directive 93/75/EEC (OJ L 208, 5.8.2002, p. 10).

▼ M11

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.
- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M11

3. The prohibitions in paragraphs 1 and 2 shall not apply to the sale, supply, transfer or export of the goods and technology referred to in paragraph 1 or to the related provision of technical and financial assistance, for non-military use and for a non-military end-user, intended for humanitarian purposes, health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment, or as a response to natural disasters.

4. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the sale, supply, transfer or export of the goods and technology referred to in paragraph 1 or the provision of related technical or financial assistance, for non-military use and for a non-military end-user, after having determined that such goods or technology or the related technical or financial assistance are intended for maritime safety.

▼ M16

5. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 4 within two weeks of the authorisation.

▼ M12*Article 3g*

1. It shall be prohibited:

- (a) to import, directly or indirectly, iron and steel products as listed in Annex XVII into the Union if they:
 - (i) originate in Russia; or
 - (ii) have been exported from Russia;

▼ M12

- (b) to purchase, directly or indirectly, iron and steel products as listed in Annex XVII which are located or which originated in Russia;
- (c) to transport iron and steel products as listed in Annex XVII if they originated in Russia or are being exported from Russia to any other country;

▼ M25

- (d) to import or purchase, as from 30 September 2023, directly or indirectly, iron and steel products as listed in Annex XVII when processed in a third country incorporating iron and steel products originating in Russia as listed in Annex XVII; with regard to products listed in Annex XVII processed in a third country incorporating steel products originating in Russia of CN codes 7207 11, 7207 12 10 or 7224 90, this prohibition shall apply as of 1 April 2024 for CN code 7207 11 and as of 1 October 2024 for CN codes 7207 12 10 and 7224 90;

For the purposes of the application of this point, at the moment of importation, importers shall provide evidence of the country of origin of the iron and steel inputs used for the processing of the product in a third country;

▼ M17

- (e) to provide, directly or indirectly, technical assistance, brokering services, financing or financial assistance, including financial derivatives, as well as insurance and re-insurance, related to the prohibitions in points (a), (b), (c) and (d).

▼ M25**▼ M17**

4. The prohibitions in points (a), (b), (c) and (e) of paragraph 1 shall not apply to the import, purchase or transport, or related technical or financial assistance, of the following quantities of goods falling under CN code 7207 12 10:

- (a) 3 747 905 metric tonnes between 7 October 2022 and 30 September 2023;
- (b) 3 747 905 metric tonnes between 1 October 2023 and 30 September 2024.

5. The prohibitions in paragraph 1 shall not apply to the import, purchase or transport, or related technical or financial assistance, of the following quantities of goods falling under CN code 7207 11:

▼ M17

- (a) 487 202 metric tonnes between 7 October 2022 and 30 September 2023;
- (b) 85 260 metric tonnes between 1 October 2023 and 31 December 2023;
- (c) 48 720 metric tonnes between 1 January 2024 and 31 March 2024.

▼ M20

5a. The prohibitions in paragraph 1 shall not apply to the import, purchase or transport, or related technical or financial assistance, of the following quantities of the goods falling under CN code 7224 90:

- (a) 147 007 metric tonnes between 17 December 2022 and 31 December 2023;
- (b) 110 255 metric tonnes between 1 January 2024 and 30 September 2024.

6. The import volume quotas set out in paragraphs 4, 5 and 5a shall be managed by the Commission and the Member States in accordance with the management system for tariff-rate quotas provided for in Articles 49 to 54 of Commission Implementing Regulation (EU) 2015/2447 ⁽¹⁾.

▼ M17

7. By way of derogation from paragraph 1, the competent authorities may authorise the purchase, import or transfer of the goods listed in Annex XVII, under such conditions as they deem appropriate, after having determined that this is necessary for the establishment, operation, maintenance, fuel supply and retreatment and safety of civil nuclear capabilities, and the continuation of design, construction and commissioning required for the completion of civil nuclear facilities, the supply of precursor material for the production of medical radioisotopes and similar medical applications, or critical technology for environmental radiation monitoring, as well as for civil nuclear cooperation, in particular in the field of research and development.

8. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 7 within two weeks of the authorisation.

▼ M12*Article 3h*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, luxury goods as listed in Annex XVIII, to any natural or legal person, entity or body in Russia or for use in Russia.

⁽¹⁾ Commission Implementing Regulation (EU) 2015/2447 of 24 November 2015 laying down detailed rules for implementing certain provisions of Regulation (EU) No 952/2013 of the European Parliament and of the Council laying down the Union Customs Code (OJ L 343, 29.12.2015, p. 558).

▼ M25

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods referred to in paragraph 1 and related to the provision, manufacture, maintenance and use of those goods, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia;
- (b) provide financing or financial assistance related to the goods referred to in paragraph 1 for any sale, supply, transfer or export of those goods, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia;
- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

2a. The prohibitions referred to in paragraphs 1 and 2 shall apply to the luxury goods listed in Annex XVIII insofar as their value exceeds EUR 300 per item, unless otherwise specified in that Annex.

▼ M12

3. The prohibition referred to in paragraph 1 shall not apply to goods which are necessary for the official purposes of diplomatic or consular missions of Member States or partner countries in Russia or of international organisations enjoying immunities in accordance with international law, or to the personal effects of their staff.

▼ M16

3a. The prohibition in paragraph 1 shall not apply to goods falling under CN 7113 00 00 and CN 7114 00 00 as listed in Annex XVIII for personal use of natural persons travelling from the European Union or members of their immediate families travelling with them, owned by those individuals and not intended for sale.

▼ M13

4. By way of derogation from paragraph 1, the competent authorities may authorise the transfer or export to Russia of cultural goods which are on loan in the context of formal cultural cooperation with Russia.

▼ M25

4a. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the sale or supply of a vessel falling under CN code 8901 10 00 or 8901 90 00, or the provision, until 31 December 2023, of related technical or financial assistance to a legal person, entity or body in Russia or for use in Russia, under such conditions as they deem appropriate, after having determined that:

▼ M25

- (a) the vessel is physically located in Russia on 24 June 2023 and for use in Russia;
- (b) the vessel has flown the Russian Federation flag under a bareboat charter registration initially effected prior to 24 February 2022;
- (c) the legal person, entity or body in Russia is not a military end user and will not use the vessel for military purposes;
- (d) the sale or supply is not for the benefit of a natural or legal person, entity or body listed in Annex I to Regulation (EU) No 269/2014 or subject to the restrictive measures provided for in this Regulation.

5. The Member State concerned shall inform the other Member States and the Commission of any authorisations granted under paragraphs 4 and 4a within two weeks of the authorisation.

▼ M13*Article 3i*

1. It shall be prohibited to purchase, import, or transfer, directly or indirectly, goods which generate significant revenues for Russia thereby enabling its actions destabilising the situation in Ukraine, as listed in Annex XXI into the Union if they originate in Russia or are exported from Russia.

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly in relation to the prohibition in paragraph 1;
- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any purchase, import or transfer of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly in relation to the prohibition in paragraph 1.

▼ M25

▼ M17

3a. The prohibition in paragraph 1 shall not apply to purchases in Russia which are necessary for the functioning of diplomatic and consular representations of the Union and of the Member States, including delegations, embassies and missions, or for the personal use of nationals of Member States and their immediate family members.

▼ M25

▼ M17

3c. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the purchase, import or transfer of the goods listed in Annex XXI, or the provision of related technical and financial assistance, under such conditions as they deem appropriate, after having determined that this is necessary for the establishment, operation, maintenance, fuel supply and retreatment and safety of civil nuclear capabilities, and the continuation of design, construction and commissioning required for the completion of civil nuclear facilities, the supply of precursor material for the production of medical radioisotopes and similar medical applications, or critical technology for environmental radiation monitoring, as well as for civil nuclear cooperation, in particular in the field of research and development.

▼ M25**▼ M24**

3da. The prohibitions in paragraphs 1 and 2 shall not apply to the import, purchase or transport, or related technical or financial assistance, necessary for the import into the Union, until 30 June 2024, of the following quantities:

- (a) 752 475 metric tonnes for goods falling under CN code 2803;
- (b) 562 973 metric tonnes for goods falling under CN code 4002.

▼ M25

3e. By way of derogation from paragraphs 1 and 2 of this Article, the competent authorities may authorise the purchase, import or transfer of goods falling under CN codes 7007, 8479, 8481, 8487, 8504, 8517, 8525, 8531, 8536, 8537, 8538, 8542, 8543, 8603 as listed in Annex XXI, or the provision of related technical and financial assistance, under such conditions as they deem appropriate, after having determined that this is necessary for the operation, maintenance or repair of Budapest metro line 3 cars delivered in 2018, in execution of a guarantee provided by Metrowagonmash prior to 24 June 2023.

▼ M13

4. As of 10 July 2022, the prohibitions in paragraphs 1 and 2 shall not apply to the import, purchase or transport, or the related technical or financial assistance, necessary for the import into the Union, of:

- (a) 837 570 metric tonnes of potassium chloride of CN 3104 20 between 10 July of a given year and 9 July of the following year;
- (b) 1 577 807 metric tonnes combined of the other products listed in Annex XXI under CN 3105 20, 3105 60 and 3105 90 between 10 July of a given year and 9 July of the following year.

▼ M24

5. The import volume quotas set out in paragraphs 3da and 4 of this Article shall be managed by the Commission and the Member States in accordance with the management system for tariff-rate quotas provided for in Articles 49 to 54 of Commission Implementing Regulation (EU) 2015/2447 ⁽¹⁾.

⁽¹⁾ Commission Implementing Regulation (EU) 2015/2447 of 24 November 2015 laying down detailed rules for implementing certain provisions of Regulation (EU) No 952/2013 of the European Parliament and of the Council laying down the Union Customs Code (OJ L 343, 29.12.2015, p. 558).

▼ M17

6. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 3c within two weeks of the authorisation.

▼ M25**▼ M13***Article 3k*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, goods which could contribute in particular to the enhancement of Russian industrial capacities as listed in Annex XXIII, to any natural or legal person, entity or body in Russia or for use in Russia.

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia;
- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in Russia, or for use in Russia;

▼ M25

- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in Russia or for use in Russia.

3. With regard to the goods of a value not exceeding EUR 50 000 per unit falling under CN codes 8703 23, 8703 24, 8703 32, 8703 33, 8703 40, 8703 50, 8703 60, 8703 70, 8703 80, 8703 90 or 8903, the prohibitions in paragraphs 1 and 2 shall not apply to the execution until 25 September 2023 of contracts concluded before 24 June 2023, or of ancillary contracts necessary for the execution of such contracts.

3a. With regard to the goods falling under CN codes 2710 12, 2909 60, 3905 99, 4002 19, 4002 70, 4010 11, 4010 12, 4011 20, 4012 90, 4805 93, 4810 29, 4823 90, 7216 61, 8402 11, 8454 30, 8477 10, 8477 20, 8477 59, 8477 80, 8477 90, 8514 32, 8514 40, 8525 89, 8704 21, 9024 90, 9031 10, 9031 41, 9031 49, 9031 80, 9031 90 or 9406 20, the prohibitions in paragraphs 1 and 2 shall not apply to the execution until 25 September 2023 of contracts concluded before 24 June 2023, or of ancillary contracts necessary for the execution of such contracts.

▼ M25

3b. With regard to the goods falling under CN codes included for the first time in Annex XXIII to this Regulation on 24 June 2023 and which are not referred to in paragraphs 3 and 3a of this Article, and with the exception of goods falling under CN codes which were already included in Annex XVIII to this Regulation, the prohibitions in paragraphs 1 and 2 of this Article shall not apply to the execution until 25 September 2023 of contracts concluded before 24 June 2023, or of ancillary contracts necessary for the execution of such contracts.

▼ M13

4. The prohibitions referred to in paragraph 1 and 2 shall not apply to goods which are necessary for the official purposes of diplomatic or consular missions of Member States or partner countries in Russia or of international organisations enjoying immunities in accordance with international law, or to the personal effects of their staff.

▼ M16

5. The competent authorities of the Member States may authorise, under the conditions they deem appropriate, the sale, supply, transfer or export of the goods and technology listed in Annex XXIII, or the provision of related technical or financial assistance, after having determined that such goods or technology or the provision of related technical or financial assistance are necessary for:

- (a) medical or pharmaceutical purposes, or for humanitarian purposes, such as delivering or facilitating the delivery of assistance, including medical supplies, food, or the transfer of humanitarian workers and related assistance or for evacuations;
- (b) the exclusive use and under the full control of the authorising Member State and in order to fulfil its maintenance obligations in areas which are under a long-term lease agreement between that Member State and the Russian Federation; or

▼ M17

- (c) the establishment, operation, maintenance, fuel supply and retreatment and safety of civil nuclear capabilities, and the continuation of design, construction and commissioning required for the completion of civil nuclear facilities, the supply of precursor material for the production of medical radioisotopes and similar medical applications, or critical technology for environmental radiation monitoring, as well as for civil nuclear cooperation, in particular in the field of research and development.

▼ M24

5a. The competent authorities of the Member States may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export of the goods falling under CN code 8417 20, or the provision of related technical or financial assistance, after having determined that such goods or the provision of related technical or financial assistance are necessary for personal household use of natural persons.

▼ M25

5b. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export of the goods falling under CN chapters 72, 84, 85 and 90 as listed in Annex XXIII, or related technical assistance, brokering services, financing or financial assistance, after having determined that it is strictly necessary for the production of titanium goods required in the aeronautic industry, for which no alternative supply is available.

▼ M24

6. When deciding on requests for authorisations referred to in paragraphs 5, 5a and 5b, the competent authorities shall not grant an authorisation for exports to any natural or legal person, entity or body in Russia or for use in Russia, if they have reasonable grounds to believe that the goods might have a military end-use.

▼ M25

7. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 5, 5a and 5b within two weeks of the authorisation.

▼ M13*Article 31*

1. It shall be prohibited for any road transport undertaking established in Russia to transport goods by road within the territory of the Union, including in transit.

▼ M25

1a. The prohibition in paragraph 1 shall apply to the transport of goods within the territory of the Union by road transport undertakings, carried out by means of trailers or semi-trailers registered in Russia, including if those trailers or semi-trailers are hauled by trucks registered in other countries.

▼ M13

2. The prohibition in paragraph 1 shall not apply to road transport undertakings transporting:

- (a) mail as a universal service;
- (b) goods in transit through the Union between the Kaliningrad Oblast and Russia, provided that the transport of such goods is not otherwise prohibited under this Regulation.

3. The prohibition in paragraph 1 shall not apply until 16 April 2022 to the transport of goods that started before 9 April 2022, provided that the vehicle of the road transport undertaking:

- (a) was already in the territory of the Union on 9 April 2022, or
- (b) needs to transit through the Union in order to return to Russia.

▼ M25

3a. The prohibition in paragraph 1a shall not apply until 30 June 2023 to the transport of goods that started before 24 June 2023, provided that the trailer or semi-trailer:

- (a) was already in the territory of the Union on 24 June 2023; or

▼ M25

- (b) needs to transit through the Union in order to be returned to Russia.

4. By way of derogation from paragraphs 1 and 1a, the competent authorities of a Member State may authorise the transport of goods by a road transport undertaking established in Russia or any road transport undertaking when the goods are carried out by means of trailers or semi-trailers registered in Russia, including if those trailers or semi-trailers are hauled by trucks registered in other countries, if the competent authorities have determined that such transport is necessary for:

▼ M15

- (a) unless prohibited under Article 3m or 3n, the purchase, import or transport into the Union of natural gas and oil, including refined petroleum products, as well as titanium, aluminium, copper, nickel, palladium and iron ore;

▼ M13

- (b) the purchase, import or transport of pharmaceutical, medical, agricultural and food products, including wheat and fertilisers whose import, purchase and transport is allowed under this Regulation;

- (c) humanitarian purposes;

▼ M15

- (d) the functioning of diplomatic and consular representations in Russia, including delegations, embassies and missions, or international organisations in Russia enjoying immunities in accordance with international law; or

▼ M13

- (e) the transfer or export to Russia of cultural goods which are on loan in the context of formal cultural cooperation with Russia.

5. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 4 within two weeks of the authorisation.

▼ M15*Article 3m*

1. It shall be prohibited to purchase, import or transfer, directly or indirectly, crude oil or petroleum products, as listed in Annex XXV, if they originate in Russia or are exported from Russia.

2. It shall be prohibited to provide, directly or indirectly, technical assistance, brokering services, financing or financial assistance or any other services related to the prohibition in paragraph 1.

3. The prohibitions in paragraphs 1 and 2 shall not apply:

- (a) until 5 December 2022, to one-off transactions for near-term delivery, concluded and executed before that date, or to the execution of contracts for the purchase, import or transfer of goods falling under CN 2709 00 concluded before 4 June 2022, or of ancillary contracts necessary for the execution of such contracts, provided that those contracts have been notified by the relevant Member States to the Commission by 24 June 2022 and that the one-off transactions for near-term delivery are notified by the relevant Member States to the Commission within 10 days of their completion;

▼ M15

- (b) until 5 February 2023, to one-off transactions for near-term delivery, concluded and executed before this date, or to the execution of contracts for the purchase, import or transfer of goods falling under CN 2710 concluded before 4 June 2022, or of ancillary contracts necessary for the execution of such contracts, provided that those contracts have been notified by the relevant Member States to the Commission by 24 June 2022 and that the one-off transactions for near-term delivery are notified by the relevant Member States to the Commission within 10 days of their completion;
- (c) to the purchase, import or transfer of seaborne crude oil and of petroleum products listed in Annex XXV where those goods originate in a third country and are only being loaded in, departing from or transiting through Russia, provided that both the origin and the owner of those goods are non-Russian;
- (d) to crude oil falling under CN 2709 00 which is delivered by pipeline from Russia into Member States, until the Council decides that the prohibitions in paragraphs 1 and 2 shall apply.

▼ M25

- 3a. The exemption in paragraph 3, point (d), shall stop applying to Germany and Poland on 23 June 2023.

▼ M15

4. If the supply of crude oil by pipeline from Russia to a landlocked Member State is interrupted for reasons outside the control of that Member State, seaborne crude oil from Russia falling under CN 2709 00 may be imported into that Member State, by way of an exceptional temporary derogation from paragraphs 1 and 2, until the supply is resumed or until the Council decision referred to in paragraph 3(d) applies with regard to that Member State, whichever is the earliest.

5. As of 5 December 2022, and by way of derogation from paragraphs 1 and 2, the competent authorities of Bulgaria may authorise the execution until 31 December 2024 of contracts concluded before 4 June 2022, or of ancillary contracts necessary for the execution of such contracts, for the purchase, import or transfer of seaborne crude oil and of petroleum products listed in Annex XXV originating in Russia or exported from Russia.

6. As of 5 February 2023, and by way of derogation from paragraphs 1 and 2, the competent authorities of Croatia may authorise until 31 December 2023 the purchase, import or transfer of vacuum gas oil falling under CN 2710 19 71 originating in Russia or exported from Russia, provided that the following conditions are fulfilled:

- (a) no alternative supply of vacuum gas oil is available; and
- (b) Croatia has notified the Commission, at least two weeks prior to the authorisation, of the grounds on which it considers that a specific authorisation should be granted, and the Commission has not objected within that period.

▼ M15

7. The goods imported following a derogation granted by a competent authority under paragraph 5 or 6 shall not be sold on to buyers located in another Member State or in a third country.

▼ M20

As from 5 February 2023, it shall be prohibited to transfer or transport petroleum products falling under CN 2710 which are obtained from crude oil imported on the basis of a derogation granted by the Bulgarian competent authority under paragraph 5, to other Member States or to third countries, or to sell such petroleum products to purchasers in other Member States or in third countries.

By way of derogation from the prohibition set out in the second subparagraph, the competent authorities of Bulgaria may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export to Ukraine of certain petroleum products as listed in Annex XXXI which are obtained from crude oil imported under paragraph 5, after having determined that:

- (a) the products are intended for exclusive use in Ukraine;
- (b) such sale, supply, transfer or export is not meant to circumvent the prohibitions in the second subparagraph.

By way of derogation from the prohibition set out in the second subparagraph, the competent authorities of Bulgaria may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export to any third country of certain petroleum products as listed in Annex XXXII which are obtained from crude oil imported under paragraph 5, within the export volume quotas mentioned in that Annex, after having determined that:

- (a) the products cannot be stored in Bulgaria due to environmental and safety risks;
- (b) such sale, supply, transfer or export is not meant to circumvent the prohibitions in the second subparagraph.

Bulgaria shall inform the other Member States and the Commission of any authorisations granted under this paragraph within two weeks of the authorisation.

▼ M15

8. The transfer or transport of crude oil delivered by pipeline into Member States as referred to in paragraph 3(d) to other Member States or to third countries, or its sale to purchasers in other Member States or in third countries, shall be prohibited.

▼ M15

All consignments and containers of such crude oil shall be clearly marked as 'REBCO: export prohibited'.

As from 5 February 2023, where crude oil has been delivered by pipeline into a Member State as referred to in paragraph 3(d), it shall be prohibited to transfer or transport petroleum products falling under CN 2710 which are obtained from such crude oil to other Member States or to third countries, or to sell such petroleum products to purchasers in other Member States or in third countries.

By way of temporary derogation, the prohibitions referred to in the third subparagraph shall apply as from 5 December 2023 to the import and transfer into Czechia, and to the sale to purchasers in Czechia, of petroleum products obtained from crude oil which has been delivered by pipeline into another Member State as referred to in paragraph 3(d). If alternative supplies for such petroleum products are made available to Czechia before that date, the Council shall terminate that temporary derogation. During the period until 5 December 2023, the volumes of such petroleum products imported into Czechia from other Member States shall not exceed the average volumes imported into Czechia from those other Member States over the same period during the previous five years.

▼ M20

As of 5 February 2023, by way of derogation from the prohibitions referred to in the third subparagraph, the competent authorities of Hungary and Slovakia may authorise, under such conditions as they deem appropriate, the sale, supply, transfer or export to Ukraine of certain petroleum products as listed in Annex XXXI which are obtained from crude oil imported under paragraph 3(d), after having determined that:

- (a) the products are intended for exclusive use in Ukraine;
- (b) such sale, supply, transfer or export is not meant to circumvent the prohibitions in the third subparagraph.

The Member State concerned shall inform the other Member States and the Commission of any authorisations granted under this paragraph within two weeks of the authorisation.

▼ M15

9. The prohibitions in paragraph 1 shall not apply to purchases in Russia of goods listed in Annex XXV which are required in order to meet the essential needs of the purchaser in Russia or of humanitarian projects in Russia.

▼ M15

10. Member States shall report to the Commission by no later than 8 June 2022 and every three months thereafter on the amounts of crude oil falling under CN 2709 00 imported by pipeline, as referred to in paragraph 3(d). Such import figures shall be broken down per pipeline. In the event that the exceptional temporary derogation referred to in paragraph 4 applies with regard to a landlocked Member State, that Member State shall report to the Commission every three months on the amounts of seaborne crude oil falling under CN 2709 00 which it imports from Russia, for as long as that derogation applies.

During the period until 5 December 2023 referred to in the fourth subparagraph of paragraph 8, Member States shall report to the Commission every three months on the amounts which they export to Czechia of petroleum products falling under CN 2710 obtained from crude oil which has been delivered by pipeline as referred to in paragraph 3(d).

▼ M20

11. Natural and legal persons, entities and bodies shall inform within two weeks the competent authority of the Member State where they are resident, located, established or incorporated, of all transactions for the purchase, import or transfer into the Union of natural gas condensates of subheading CN 2709 00 10 from liquefied natural gas production plants, originating in or exported from Russia. The reporting shall include information on volumes.

The Member State concerned shall provide the other Member States and the Commission with the information received under the previous subparagraph.

12. Based on the information received under paragraph 11, the Commission shall review the functioning of the measures concerning natural gas condensates of subheading CN 2709 00 10 from liquefied natural gas production plants, originating in or exported from Russia, no later than 18 June 2023.

▼ M15*Article 3n***▼ M18**

1. It shall be prohibited to provide, directly or indirectly, technical assistance, brokering services or financing or financial assistance, related to the trading, brokering or transport, including through ship-to-ship transfers, to third countries of crude oil or petroleum products as listed in Annex XXV which originate in Russia or which have been exported from Russia.

▼M17

2. The prohibition in paragraph 1 shall not apply to the execution of contracts concluded before 4 June 2022, or of ancillary contracts necessary for the execution of such contracts until:

(a) 5 December 2022, for crude oil falling under CN code 2709 00;

(b) 5 February 2023, for petroleum products falling under CN code 2710.

3. The prohibition in paragraph 1 does not apply to the payment of insurance claims after 5 December 2022, for crude oil falling under CN code 2709 00, or after 5 February 2023, for petroleum products falling under CN code 2710, on the basis of insurance contracts concluded before 4 June 2022 and provided that the insurance coverage has ceased by the relevant date.

▼M18

4. It shall be prohibited to trade, broker or transport, including through ship-to-ship transfers, to third countries, crude oil falling under CN code 2709 00, as of 5 December 2022, or petroleum products falling under CN code 2710, as of 5 February 2023, as listed in Annex XXV, which originate in Russia or which have been exported from Russia.

5. The prohibition in paragraph 4 of this Article shall apply as from the date of entry into force of the first Council Decision amending Annex XI to Decision 2014/512/CFSP in accordance with point (a) of Article 4p(9) of that Decision.

As from the date of entry into force of every subsequent Council Decision amending Annex XI to Decision 2014/512/CFSP, the prohibitions in paragraphs 1 and 4 of this Article shall not apply, for a period of 90 days, to the transport of products listed in Annex XXV to this Regulation which originate in Russia or which have been exported from Russia, and to the provision, directly or indirectly, of technical assistance, brokering services or financing or financial assistance, related to the transport, provided that:

(a) the transport or the provision of technical assistance, brokering services or financing or financial assistance, related to the transport is based on a contract concluded before the date of entry into force of every subsequent Council Decision amending Annex XI to Decision 2014/512/CFSP; and

(b) the purchase price per barrel did not exceed the price laid down in Annex XXVIII to this Regulation on the date of conclusion of that contract.

▼ M18

6. The prohibitions in paragraphs 1 and 4 shall not apply:
- (a) as of 5 December 2022, to crude oil falling under CN code 2709 00, and as of 5 February 2023, to petroleum products falling under CN code 2710, which originate in Russia or which have been exported from Russia provided that the purchase price per barrel of such products does not exceed the price laid down in Annex XXVIII;
 - (b) to crude oil or petroleum products as listed in Annex XXV where those goods originate in a third country and are only being loaded in, departing from or transiting through Russia, provided that both the origin and the owner of those goods are non-Russian;
 - (c) to the transport, or to technical assistance, brokering services, financing or financial assistance related to such transport, of the products mentioned in Annex XXIX to the third countries mentioned therein, for the duration specified in that Annex;
 - (d) as of 5 December 2022, to crude oil falling under CN code 2709 00, which originates in Russia or which has been exported from Russia purchased above the price laid down in Annex XXVIII which is loaded onto a vessel at the port of loading prior to 5 December 2022 and unloaded at the final port of destination prior to 19 January 2023;

▼ M22

- (e) as of 5 February 2023, to petroleum products falling under CN code 2710, which originate in Russia or which have been exported from Russia purchased above the respective price laid down in Annex XXVIII which are loaded onto a vessel at the port of loading prior to 5 February 2023 and unloaded at the final port of destination prior to 1 April 2023.

▼ M18

7. In the event that, after the entry into force of a Council Decision amending Annex XI to Decision 2014/512/CFSP, a vessel has transported the Russian crude oil or petroleum products referred to in paragraph 4, and the operator responsible for the transport knew or had reasonable cause to suspect that such crude oil or petroleum products were purchased above the price laid down in Annex XXVIII to this Regulation on the date of conclusion of the contract for such purchase, it shall be prohibited to provide the services referred to in paragraph 1 of this Article relating to the transport of crude oil or petroleum products that originate in Russia or are exported from Russia as referred to in paragraph 4 of this Article by that vessel for 90 days following the date of unloading of the cargo purchased above the price cap.

▼ M17

8. The prohibition in paragraph 1 shall not apply to the provision of pilot services necessary for reasons of maritime safety.

▼ M18

9. The prohibitions in paragraph 1 and 4 shall not apply to the transport or provision of technical assistance, brokering services or financing or financial assistance, related to the transport necessary for the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment, or as a response to natural disasters, provided that the national competent authority has been notified immediately once the event has been identified.

▼ M18

10. Member States and the Commission shall inform each other of detected instances of a breach or circumvention of the prohibitions set out in this Article.

Any information provided or received in accordance with this Article shall be used for the purposes for which it was provided or received, including ensuring the effectiveness of the measure.

▼ M22

11. The functioning of the price cap mechanism, including Annex XXVIII as well as the prohibitions in paragraphs 1 and 4 of this Article, shall be reviewed by mid-March 2023 and every 2 months thereafter.

The review shall take into account the effectiveness of the measure in terms of its expected results, its implementation, international adherence to and informal alignment with the price cap mechanism, and its potential impact on the Union and its Member States. It shall respond to developments in the market, including possible turbulences.

In order to achieve the objectives of the price cap, including its ability to reduce Russia's oil revenues, the price cap shall be at least 5 % below the average market price for Russian oil and petroleum products, calculated on the basis of data provided by the International Energy Agency.

▼ M20

12. Natural and legal persons, entities and bodies shall inform within two weeks the competent authority of the Member State where they are resident, located, established or incorporated, of all transactions for the purchase or transfer into third countries of natural gas condensates of subheading CN 2709 00 10 from liquefied natural gas production plants, originating in or exported from Russia. The reporting shall include information on volumes.

The Member State concerned shall provide the other Member States and the Commission with the information received under the previous subparagraph.

13. Based on the information received under paragraph 12, the Commission shall review the functioning of the measures concerning natural gas condensates of subheading CN 2709 00 10 from liquefied natural gas production plants, originating in or exported from Russia, no later than 18 June 2023.

▼ M16*Article 30*

1. It shall be prohibited to purchase, import, or transfer, directly or indirectly, gold, as listed in Annex XXVI if it originates in Russia and it has been exported from Russia into the Union or to any third country after 22 July 2022.

▼M16

2. It shall be prohibited to purchase, import, or transfer, directly or indirectly the products listed in Annex XXVI when processed in a third country incorporating the products prohibited in paragraph 1.

3. It shall be prohibited to purchase, import, or transfer, directly or indirectly, gold, as listed in Annex XXVII if it originates in Russia and it has been exported from Russia into the Union after 22 July 2022.

4. It shall be prohibited to:

(a) provide technical assistance, brokering services or other services related to the goods referred to in paragraphs 1, 2 and 3 and to the provision, manufacture, maintenance and use of those goods, directly or indirectly in relation to the prohibition in paragraphs 1, 2 and 3;

(b) provide financing or financial assistance related to the goods referred to in paragraphs 1, 2 and 3 for any purchase, import or transfer of those goods, or for the provision of related technical assistance, brokering services or other services, directly or indirectly in relation to the prohibition in paragraphs 1, 2 and 3.

5. The prohibitions in paragraphs 1, 2 and 3 shall not apply to gold which is necessary for the official purposes of diplomatic missions, consular posts or international organisations in Russia enjoying immunities in accordance with international law.

6. The prohibition in paragraph 3 shall not apply to goods as listed in Annex XXVII for personal use of natural persons travelling to the European Union or members of their immediate families travelling with them, owned by those individuals and not intended for sale.

7. By way of derogation from paragraphs 1, 2 and 3, the competent authorities may authorise the transfer or import of cultural goods which are on loan in the context of formal cultural cooperation with Russia.

▼B*Article 4*

1. It shall be prohibited:

▼M25

(a) to provide, directly or indirectly, technical assistance and brokering services related to the goods and technology listed in the Common Military List⁽¹⁾, or related to the provision, manufacture, maintenance and use of goods included in that list, to any natural or legal person, entity or body in Russia or for use in Russia;

⁽¹⁾ Latest version published in OJ C 85, 13.3.2020, p. 147.

▼ M1

- (b) to provide, directly or indirectly, financing or financial assistance related to the goods and technology listed in the Common Military List, including in particular grants, loans and export credit insurance or guarantee, as well as insurance and reinsurance for any sale, supply, transfer or export of such items, or for any provision of related technical assistance, to any natural or legal person, entity or body in Russia or for use in Russia.

▼ M13

2. The prohibitions in paragraph 1 shall be without prejudice to the assistance for:

- (a) the import, purchase or transport related to: (i) the provision of spare parts and services necessary for the maintenance and safety of existing capabilities within the Union; or (ii) the execution of contracts concluded before 1 August 2014, or ancillary contracts necessary for the execution of such contracts; or
- (b) the sale, supply, transfer or export of spare parts and services necessary for the maintenance, repair and safety of existing capabilities within the Union.

▼ M3

2a. The prohibitions in points (a) and (b) of paragraph 1 shall not apply to the provision, directly or indirectly, of technical assistance, financing or financial assistance, related to the following operations:

- (a) the sale, supply, transfer or export and to the import, purchase or transport of Hydrazine (CAS 302-01-2) in concentrations of 70 per cent or more, provided that that technical assistance, financing or financial assistance refers to an amount of Hydrazine calculated in accordance with the launch or launches or the satellites for which it is made, and which does not exceed a total quantity of 800 kg for each individual launch or satellite;
- (b) the import, purchase or transport of Unsymmetrical dimethyl hydrazine (CAS 57-14-7);
- (c) the sale, supply, transfer or export and to the import, purchase or transport of monomethyl hydrazine (CAS60-34-4), provided that that technical assistance, financing or financial assistance refers to an amount of Monomethyl Hydrazine calculated in accordance with the launch or launches or the satellites for which it is made,

insofar as the substances mentioned in points (a), (b) and (c) of this paragraph are destined for the use of launchers operated by European launch service providers, for the use of launches of European space programmes, or for the fuelling of satellites by European satellites manufacturers.

▼ M4

2aa. The prohibitions in points (a) and (b) of paragraph 1 shall not apply to the provision, directly or indirectly, of technical assistance, financing or financial assistance related to the sale, supply, transfer or export and the import, purchase or transport of hydrazine (CAS 302-01-2) in concentrations of 70 % or more, provided that that technical assistance, financing or financial assistance refers to hydrazine destined for:

- (a) the tests and flight of the ExoMars descent module in the framework of the ExoMars 2020 mission, in an amount calculated in accordance with the needs of each phase of that mission, which does not exceed a total of 5 000 kg for the entire duration of the mission; or
- (b) the flight of the ExoMars carrier module in the framework of the ExoMars 2020 mission, in an amount calculated in accordance with the needs of the flight, which does not exceed a total of 300 kg.

2b. The provision, directly or indirectly, of technical assistance, financing or financial assistance, related to the operations referred to in paragraphs 2a and 2aa shall be subject to prior authorisation by the competent authorities.

Applicants for authorisation shall supply the competent authorities with all relevant information required.

The competent authorities shall inform the Commission of all the authorisations granted.

▼ M2

3. The provision of the following shall be subject to an authorisation from the competent authority concerned:

- (a) technical assistance or brokering services related to items listed in Annex II and to the provision, manufacture, maintenance and use of those items, directly or indirectly, to any natural or legal person, entity or body in Russia, including its Exclusive Economic Zone and Continental Shelf or, if such assistance concerns items for use in Russia, including its Exclusive Economic Zone and Continental Shelf, to any person, entity or body in any other State;
- (b) financing or financial assistance related to items referred to in Annex II, including in particular grants, loans and export credit insurance, for any sale, supply, transfer or export of those items, or for any provision of related technical assistance, directly or indirectly, to any natural or legal person, entity or body in Russia, including its Exclusive Economic Zone and Continental Shelf or, if such assistance concerns items for use in Russia, including its Exclusive Economic Zone and Continental Shelf, to any person, entity or body in any other State.

▼M2

In duly justified cases of emergency referred to in Article 3(5), the provision of services referred to in this paragraph may proceed without prior authorisation, on condition that the provider notifies the competent authority within five working days after the provision of services.

▼C1

4. Where authorisations are requested pursuant to paragraph 3 of this Article, Article 3, and in particular paragraphs 2 and 5 thereof, shall apply *mutatis mutandis*.

▼M7*Article 5*

1. It shall be prohibited to directly or indirectly purchase, sell, provide investment services for or assistance in the issuance of, or otherwise deal with transferable securities and money-market instruments with a maturity exceeding 90 days, issued after 1 August 2014 to 12 September 2014, or with a maturity exceeding 30 days, issued after 12 September 2014 to 12 April 2022 or any transferable securities and money market instruments issued after 12 April 2022 by:

- (a) a major credit institution, or other major institution having an explicit mandate to promote competitiveness of the Russian economy, its diversification and encouragement of investment, established in Russia with over 50 % public ownership or control as of 1 August 2014, as listed in Annex III; or
- (b) a legal person, entity or body established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in Annex III; or
- (c) a legal person, entity or body acting on behalf or at the direction of an entity referred to in point (b) of this paragraph or listed in Annex III.

2. It shall be prohibited to directly or indirectly, purchase, sell, provide investment services for or assistance in the issuance of, or otherwise deal with transferable securities and money-market instruments issued after 12 April 2022 by:

- (a) any major credit institution, or other institution with over 50 % public ownership or control as of 26 February 2022 or any other credit institution having a significant role in supporting the activities of Russia, its government or the Central Bank and established in Russia, as listed in Annex XII; or

▼ **M7**

- (b) a legal person, entity or body established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in Annex XII; or
- (c) a legal person, entity or body acting on behalf or at the direction of an entity referred to in point (a) or (b) of this paragraph.

3. It shall be prohibited to directly or indirectly purchase, sell, provide investment services for or assistance in the issuance of, or otherwise deal with transferable securities and money-market instruments with a maturity exceeding 30 days, issued after 12 September 2014 to 12 April 2022 or any transferable securities and money market instruments issued after 12 April 2022 by:

- (a) a legal person, entity or body established in Russia predominantly engaged, and with major activities, in the conception, production, sales or export of military equipment or services, as listed in Annex V, except legal persons, entities or bodies active in the space or the nuclear energy sectors;
- (b) a legal person, entity or body established in Russia, which is publicly controlled or with over 50 % public ownership and having estimated total assets of over RUB 1 trillion and whose estimated revenues originate for at least 50 % from the sale or transportation of crude oil or petroleum products, as listed in Annex VI;
- (c) a legal person, entity or body established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in point (a) or (b) of this paragraph; or
- (d) a legal person, entity or body acting on behalf or at the direction of an entity referred to in point (a), (b) or (c) of this paragraph.

4. It shall be prohibited to directly or indirectly purchase, sell, provide investment services for or assistance in the issuance of, or otherwise deal with transferable securities and money-market instruments, issued after 12 April 2022 by:

- (a) a legal person, entity or body established in Russia, which is publicly controlled or with over 50 % public ownership and in which Russia, its Government or Central Bank has the right to participate in profits or with which Russia, its Government or Central Bank has other substantial economic relationships, as listed in Annex XIII; or
- (b) a legal person, entity or body established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed Annex XIII; or
- (c) a legal person, entity or body acting on behalf or at the direction of an entity referred to in point (a) or (b) of this paragraph.

▼ M20

5. It shall be prohibited to list and provide services for, as of 12 April 2022, and to admit to trading as of 29 January 2023, on trading venues registered or recognised in the Union, the transferable securities of any legal person, entity or body established in Russia and with over 50 % public ownership.

▼ M7

6. It shall be prohibited to directly or indirectly make or be part of any arrangement to make

- (i) new loans or credit with a maturity exceeding 30 days to any legal person, entity or body referred to in paragraph 1 or 3, after 12 September 2014 to 26 February 2022; or
- (ii) any new loans or credit to any legal person, entity or body referred to in paragraph 1, 2, 3 or 4 after 26 February 2022.

The prohibition shall not apply to:

- (a) loans or credit that have a specific and documented objective to provide financing for non-prohibited imports or exports of goods and non-financial services between the Union and any third State, including the expenditure for goods and services from another third State that is necessary for executing the export or import contracts; or
- (b) loans that have a specific and documented objective to provide emergency funding to meet solvency and liquidity criteria for legal persons established in the Union, whose proprietary rights are owned for more than 50 % by any entity referred to in Annex III.

7. The prohibition in paragraph 6 shall not apply to drawdown or disbursements made under a contract concluded before 26 February 2022 provided that the following conditions are met:

- (a) all the terms and conditions of such drawdown or disbursements:
 - (i) were agreed before 26 February 2022; and
 - (ii) have not been modified on or after that date; and
- (b) before 26 February 2022 a contractual maturity date has been fixed for the repayment in full of all funds made available and for the cancellation of all the commitments, rights and obligations under the contract; and
- (c) at the time of its conclusion the contract was not in breach of the prohibitions of this Regulation in force at that time.

The terms and conditions of drawdowns and disbursements referred to in point (a) include provisions concerning the length of the repayment period for each drawdown or disbursement, the interest rate applied or the interest rate calculation method, and the maximum amount.

▼ M6*Article 5a*

1. It shall be prohibited to directly or indirectly purchase, sell, provide investment services for or assistance in the issuance of, or otherwise deal with transferable securities and money-market instruments issued after 9 March 2022 by:

- (a) Russia and its government; or
- (b) the Central Bank of Russia; or
- (c) a legal person, entity or body acting on behalf or at the direction of the entity referred to in point (b).

2. It shall be prohibited to directly or indirectly make or be part of any arrangement to make any new loans or credit to any legal person, entity or body referred to in paragraph 1 after 23 February 2022.

The prohibition shall not apply to loans or credit that have a specific and documented objective to provide financing for non-prohibited imports or exports of goods and non-financial services between the Union and any third State, including the expenditure for goods and services from another third State that is necessary for executing the export or import contracts.

3. The prohibition in paragraph 2 shall not apply to drawdown or disbursements made under a contract concluded before 23 February 2022 provided that the following conditions are met:

- (a) all the terms and conditions of such drawdown or disbursements:
 - (i) were agreed before 23 February 2022; and
 - (ii) have not been modified on or after that date; and
- (b) before 23 February 2022 a contractual maturity date has been fixed for the repayment in full of all funds made available and for the cancellation of all the commitments, rights and obligations under the contract.

The terms and conditions of drawdowns and disbursements referred to in point (a) include provisions concerning the length of the repayment period for each drawdown or disbursement, the interest rate applied or the interest rate calculation method, and the maximum amount.

▼ M11

4. Transactions related to the management of reserves as well as of assets of the Central Bank of Russia, including transactions with any legal person, entity or body acting on behalf of, or at the direction of, the Central Bank of Russia, such as the Russian National Wealth Fund, are prohibited.

▼ M24

4a. Notwithstanding the applicable rules concerning reporting, confidentiality and professional secrecy, natural and legal persons, entities and bodies, including the European Central Bank, national central banks, financial sector entities as defined in Article 4 of Regulation (EU) No 575/2013 of the European Parliament and of the Council ⁽¹⁾, insurance and reinsurance undertakings as defined in Article 13 of Directive 2009/138/EC of the European Parliament and of the Council ⁽²⁾, central securities depositories as defined in Article 2 of Regulation (EU) No 909/2014 and central counterparties as defined in Article 2 of Regulation (EU) No 648/2012 of the European Parliament and of the Council ⁽³⁾ shall provide, no later than two weeks after 26 February 2023, to the competent authority of the Member State where they are resident or located, and simultaneously to the Commission, information on the assets and reserves referred to in paragraph 4 of this Article which they hold or control or are a counterparty to. Such information shall be updated every three months and shall at least cover the following:

- (a) information identifying the natural or legal persons, entities or bodies owning, holding or controlling such assets and reserves, including the name, address and VAT registration or tax identification number;
- (b) the amount or market value of such assets and reserves at the date of reporting and at the date of immobilisation;
- (c) types of the assets and reserves, broken down according to the categories set out in points (i) to (vii) of Article 1(g) of Council Regulation (EU) 269/2014 ⁽⁴⁾ as well as crypto-assets and other relevant categories, and an additional category corresponding to economic resources within the meaning of Article 1(d) of Regulation (EU) 269/2014. For each of those categories and where available, relevant features, such as quantity, location, currency, maturity and contractual conditions between the reporting entity and the asset owner shall be indicated.

4b. Where the reporting natural or legal person, entity or body has established an extraordinary and unforeseen loss or damage to the assets and reserves referred to in paragraph 4a, this information shall be reported immediately to the competent authority of the relevant Member State and transmitted simultaneously to the Commission.

⁽¹⁾ Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012 (OJ L 176, 27.6.2013, p. 1).

⁽²⁾ Directive 2009/138/EC of the European Parliament and of the Council of 25 November 2009 on the taking-up and pursuit of the business of Insurance and Reinsurance (Solvency II) (OJ L 335, 17.12.2009, p. 1).

⁽³⁾ Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC derivatives, central counterparties and trade repositories (OJ L 201, 27.7.2012, p. 1).

⁽⁴⁾ Council Regulation (EU) No 269/2014 of 17 March 2014 concerning restrictive measures in respect of actions undermining or threatening the territorial integrity, sovereignty and independence of Ukraine (OJ L 78, 17.3.2014, p. 6).

▼ M24

4c. Member States, as well as the natural and legal persons, entities and bodies covered by the reporting obligation set out in paragraph 4a, shall cooperate with the Commission in any verification of the information received pursuant to that paragraph. The Commission may request any additional information it requires to carry out such verification. When such a request is addressed to a natural or legal person, entity or body, the Commission shall simultaneously transmit it to the competent authority of the relevant Member State. Any additional information received directly by the Commission shall be made available to the competent authority of the relevant Member State.

4d. Any information provided to or received by the Commission and the competent authorities of the Member States in accordance with this Article shall be used by the Commission and the competent authorities of the Member States only for the purposes for which it was provided or received.

4e. Any processing of personal data shall be carried out in accordance with this Regulation and Regulations (EU) 2016/679 ⁽¹⁾ and (EU) 2018/1725 ⁽²⁾ of the European Parliament and of the Council and only in so far as necessary for the application of this Regulation and to ensure effective cooperation between Member States as well as with the Commission in the application of this Regulation.

▼ M8

5. By way of derogation from paragraph 4, the competent authorities may authorise a transaction provided that it is strictly necessary to ensure the financial stability of the Union as a whole or of the Member State concerned.

6. The Member State concerned shall immediately inform the other Member States and the Commission of its intention to grant an authorisation under paragraph 5.

▼ M12*Article 5aa*

1. It shall be prohibited to directly or indirectly engage in any transaction with:

- (a) a legal person, entity or body established in Russia, which is publically controlled or with over 50 % public ownership or in which Russia, its Government or Central Bank has the right to participate in profits or with which Russia, its Government or Central Bank has other substantial economic relationship, as listed in Annex XIX;

⁽¹⁾ Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1).

⁽²⁾ Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

▼ M12

- (b) a legal person, entity or body established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in Annex XIX; or
- (c) a legal person, entity or body acting on behalf or at the direction of an entity referred to in point (a) or (b) of this paragraph.

▼ M17

- 1a. It shall be prohibited as from 22 October 2022 to hold any posts in the governing bodies of any legal person, entity or body referred to in paragraph 1.

▼ M20

- 1b. It shall be prohibited as from 16 January 2023 to hold any posts in the governing bodies of:

- (a) a legal person, entity or body established in Russia, which is publicly controlled or with over 50 % public ownership, or in which Russia, its Government or Central Bank has the right to participate in profits or with which Russia, its Government or Central Bank has other substantial economic relationship;
- (b) a legal person, entity or body established in Russia whose proprietary rights are directly or indirectly owned for more than 50 % by an entity referred to in point (a) of this paragraph; or
- (c) a legal person, entity or body established in Russia and acting on behalf or at the direction of an entity referred to in point (a) or (b) of this paragraph.

This prohibition shall not apply to any legal person, entity or body referred to in paragraph 1, for which paragraph 1a applies.

- 1c. By way of derogation from paragraph 1b, the competent authorities may authorise the holding of a post in the governing body of a legal person, entity or body referred to in paragraph 1b, after having determined that the legal person, entity or body is:

- (a) a joint venture or similar legal arrangement involving a legal person, entity or body referred to in paragraph 1b and concluded by a legal person, entity or body which is incorporated or constituted under the law of a Member State before 17 December 2022; or
- (b) a legal person, entity or body referred to in paragraph 1b which was established in Russia before 17 December 2022 and which is owned by, or solely or jointly controlled by, a legal person, entity or body which is incorporated or constituted under the law of a Member State.

- 1d. By way of derogation from paragraph 1b, the competent authorities may authorise the holding of a post in the governing body of a legal person, entity or body referred to in paragraph 1b, after having determined that the holding of such a post is necessary for ensuring critical energy supply.

▼ M20

1e. By way of derogation from paragraph 1b, the competent authorities may authorise the holding of a post in the governing body of a legal person, entity or body referred to in paragraph 1b, after having determined that the legal person, entity or body is involved in the transit through Russia of oil originating in a third country and that the holding of such a post is intended for operations which are not prohibited under Articles 3m and 3n.

▼ M17

2. The prohibition in paragraph 1 shall not apply to the execution until 15 May 2022 of contracts concluded with a legal person, entity or body referred to in Part A of Annex XIX before 16 March 2022, or of ancillary contracts necessary for the execution of such contracts.

2a. The prohibition in paragraph 1 shall not apply to the reception of payments due by the legal persons, entities or bodies referred to in Part A of Annex XIX pursuant to contracts performed before 15 May 2022.

2b. The prohibition in paragraph 1 shall not apply to the execution until 8 January 2023 of contracts concluded with a legal person, entity or body referred to in Part B of Annex XIX before 7 October 2022, or of ancillary contracts necessary for the execution of such contracts.

2c. The prohibition in paragraph 1 shall not apply to the reception of payments due by the legal persons, entities or bodies referred to in Part B of Annex XIX pursuant to contracts performed before 8 January 2023.

▼ M20

2d. The prohibition in paragraph 1 shall not apply to the execution until 18 March 2023 of contracts concluded with a legal person, entity or body referred to in Part C of Annex XIX before 17 December 2022, or of ancillary contracts necessary for the execution of such contracts.

2e. The prohibition in paragraph 1 shall not apply to the reception of payments due by the legal persons, entities or bodies referred to in Part C of Annex XIX pursuant to contracts performed before 18 March 2023.

▼ M12

3. The prohibition in paragraph 1 shall not apply to:

▼ M16

(a) transactions which are strictly necessary for the direct or indirect purchase, import or transport of natural gas, titanium, aluminium, copper, nickel, palladium and iron ore from or through Russia into the Union, a country member of the European Economic Area, Switzerland, or the Western Balkans;

(aa) unless prohibited under Article 3m or 3n, transactions which are strictly necessary for the direct or indirect purchase, import or transport of oil, including refined petroleum products, from or through Russia;

▼ M12

- (b) transactions related to energy projects outside Russia in which a legal person, entity or body listed in Annex XIX is a minority shareholder;

▼ M25

▼ M24

- (d) transactions, including sales, which are strictly necessary for the wind-down, by 31 December 2023, of a joint venture or similar legal arrangement concluded before 16 March 2022, involving a legal person, entity or body referred to in paragraph 1;

▼ M15

- (e) transactions related to the provision of electronic communication services, data center services, and the provision of services and equipment necessary for their operation, maintenance, security, including the provision of firewalls, and call center services, to a legal person, entity or body listed in Annex XIX;

▼ M16

- (f) transactions which are necessary for the purchase, import or transport of pharmaceutical, medical, agricultural and food products, including wheat and fertilisers whose import, purchase and transport is allowed under this Regulation;
- (g) transactions which are strictly necessary to ensure access to judicial, administrative or arbitral proceedings in a Member State, as well as for the recognition or enforcement of a judgment or an arbitration award rendered in a Member State and if such transactions are consistent with the objectives of this Regulation and Regulation (EU) No 269/2014;

▼ M24

- (h) the provision of pilot services to vessels in innocent passage as defined by international law which are necessary for reasons of maritime safety.

3a. By way of derogation from paragraph 1, the competent authorities may authorise, under such conditions as they deem appropriate, transactions which are strictly necessary for the divestment and withdrawal by 31 December 2023, by the entities referred to in paragraph 1 or their subsidiaries in the Union from a legal person, entity or body established in the Union.

▼ M17

4. By way of derogation from the procedure laid down in Article 7(3) of Regulation (EC) No 391/2009 of the European Parliament and of the Council ⁽¹⁾ and in Article 21(3) of Directive (EU) 2016/1629 of the European Parliament and of the Council ⁽²⁾, the Union's recognition of the Russian Maritime Register of Shipping under Regulation (EC) No 391/2009 and Directive (EU) 2016/1629 is withdrawn.

⁽¹⁾ Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 on common rules and standards for ship inspection and survey organisations (OJ L 131 28.5.2009, p. 11).

⁽²⁾ Directive (EU) 2016/1629 of the European Parliament and of the Council of 14 September 2016 laying down technical requirements for inland waterway vessels, amending Directive 2009/100/EC and repealing Directive 2006/87/EC (OJ L 252, 16.9.2016, p. 118).

▼ M20

5. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 1c, 1d, 1e and 3a within two weeks of the authorisation.

▼ M13*Article 5b***▼ M16**

1. It shall be prohibited to accept any deposits from Russian nationals or natural persons residing in Russia, legal persons, entities or bodies established in Russia or a legal person, entity or body established outside the Union and whose proprietary rights are directly or indirectly owned for more than 50 % by Russian nationals or natural persons residing in Russia, if the total value of deposits of that natural or legal person, entity or body per credit institution exceeds EUR 100 000.

▼ M17

2. It shall be prohibited to provide crypto-asset wallet, account or custody services to Russian nationals or natural persons residing in Russia, or legal persons, entities or bodies established in Russia.

▼ M13

3. Paragraphs 1 and 2 shall not apply to nationals of a Member State, of a country member of the European Economic Area or of Switzerland, or to natural persons having a temporary or permanent residence permit in a Member State, in a country member of the European Economic Area or in Switzerland.

▼ M16**▼ M15***Article 5c*

1. By way of derogation from Articles 5b(1) and (2), the competent authorities may authorise the acceptance of such a deposit or the provision of wallet, account or custody service, under such conditions as they deem appropriate, after having determined that the acceptance of such a deposit or the provision of wallet, account or custody service is:

- (a) necessary to satisfy the basic needs of natural or legal persons, entities or bodies referred to in Article 5b(1) and their dependent family members, including payments for food, rent or mortgage, medicines and medical treatment, taxes, insurance premiums, and public utility charges;
- (b) intended exclusively for the payment of reasonable professional fees or the reimbursement of incurred expenses associated with the provision of legal services;
- (c) intended exclusively for the payment of fees or service charges for the routine holding or maintenance of frozen funds or economic resources;
- (d) necessary for extraordinary expenses, provided that the relevant competent authority has notified the competent authorities of the other Member States and the Commission of the grounds on which it considers that a specific authorisation should be granted, at least two weeks prior to the authorisation;

▼ M15

- (e) necessary for official purposes of a diplomatic mission or consular post or international organisation; or

▼ M16

- (f) necessary for non-prohibited cross-border trade in goods and services between the Union and Russia.

▼ M15

2. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 1, points (a), (b), (c) or (e), within two weeks of the authorisation.

▼ M7*Article 5d***▼ M13**

1. By way of derogation from Articles 5b(1) and (2), the competent authorities may authorise the acceptance of such a deposit or provision of wallet, account or custody service, under such conditions as they deem appropriate, after having determined that the acceptance of such a deposit or provision of wallet, account or custody service is:

▼ M7

- (a) necessary for humanitarian purposes, such as delivering or facilitating the delivery of assistance, including medical supplies, food, or the transfer of humanitarian workers and related assistance or for evacuations; or
 - (b) necessary for civil society activities that directly promote democracy, human rights or the rule of law in Russia.
2. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 1 within two weeks of the authorisation.

Article 5e

1. It shall be prohibited for Union central securities depositories to provide any services as defined in the Annex of Regulation (EU) No 909/2014 for transferable securities issued after 12 April 2022 to any Russian national or natural person residing in Russia or any legal person, entity or body established in Russia.

▼ M16

2. Paragraph 1 shall not apply to nationals of a Member State, of a country member of the European Economic Area or of Switzerland, or to natural persons having a temporary or permanent residence permit in a Member State, in a country member of the European Economic Area or in Switzerland.

▼ M7*Article 5f***▼ M25**

1. It shall be prohibited to sell transferable securities denominated in any official currency of a Member State issued after 12 April 2022, or denominated in any other currency issued after 6 August 2023, or units in collective investment undertakings providing exposure to such securities, to any Russian national or natural person residing in Russia or any legal person, entity or body established in Russia.

▼ M15

2. Paragraph 1 shall not apply to nationals of a Member State, of a country member of the European Economic Area or of Switzerland, or to natural persons having a temporary or permanent residence permit in a Member State, in a country member of the European Economic Area or in Switzerland.

▼ M7*Article 5g*

1. Without prejudice to the applicable rules concerning reporting, confidentiality and professional secrecy, credit institutions shall:

- (a) supply to the national competent authority of the Member State where they are located or to the Commission by no later than 27 May 2022, a list of deposits exceeding 100 000 EUR held by Russian nationals or natural persons residing in Russia, or by legal persons, entities or bodies established in Russia. They shall provide updates regarding the amounts of such deposits every 12 months;

▼ M20

- (aa) supply to the national competent authority of the Member State where they are located or to the Commission by no later than 27 May 2023 a list of deposits exceeding 100 000 EUR held by a legal person, entity or body established outside the Union and whose proprietary rights are directly or indirectly owned for more than 50 % by Russian nationals or natural persons residing in Russia. They shall provide updates regarding the amounts of such deposits every 12 months;

▼ M7

- (b) supply to the national competent authority of the Member State where they are located information on deposits exceeding EUR 100 000 held by Russian nationals or natural persons residing in Russia who have acquired the citizenship of a Member State or residence rights in a Member State through an investor citizenship scheme or an investor residence scheme.

▼ M15*Article 5h*

1. It shall be prohibited to provide specialised financial messaging services, which are used to exchange financial data, to the legal persons, entities or bodies listed in Annex XIV or to any legal person, entity or body established in Russia whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in Annex XIV.

2. For each legal person, entity or body listed in Annex XIV, the prohibition set out in paragraph 1 shall apply as of the date mentioned for it in that Annex. The prohibition shall apply as of the same date to any legal person, entity or body established in Russia whose proprietary rights are directly or indirectly owned for more than 50 % by an entity listed in Annex XIV.

▼ M13*Article 5i*

1. It shall be prohibited to sell, supply, transfer or export banknotes denominated in any official currency of a Member State to Russia or to any natural or legal person, entity or body in Russia, including the government and the Central Bank of Russia, or for use in Russia.

2. The prohibition in paragraph 1 shall not apply to the sale, supply, transfer or export of banknotes denominated in any official currency of a Member State provided that such sale, supply, transfer or export is necessary for:

- (a) the personal use of natural persons travelling to Russia or members of their immediate families travelling with them; or
- (b) the official purposes of diplomatic missions, consular posts or international organisations in Russia enjoying immunities in accordance with international law.

▼ M12*Article 5j***▼ M16**

1. It shall be prohibited to provide credit rating services to or on any Russian national or natural person residing in Russia or any legal person, entity or body established in Russia.

▼ M12

2. It shall be prohibited as of 15 April 2022 to provide access to any subscription services in relation to credit rating activities to any Russian national or natural person residing in Russia or any legal person, entity or body established in Russia.

3. Paragraphs 1 and 2 shall not apply to nationals of a Member State or natural persons having a temporary or permanent residence permit in a Member State.

▼ M13*Article 5k***▼ M25**

1. It shall be prohibited to award or continue the execution of any public or concession contract falling within the scope of the public procurement Directives, as well as Article 10(1), (3), (6) points (a) to (e), (8), (9) and (10), Articles 11, 12, 13 and 14 of Directive 2014/23/EU, Article 7, points (a) to (d), and Article 8, Article 10 points (b) to (f) and (h) to (j) of Directive 2014/24/EU, Article 18, Article 21 points (b) to (e) and (g) to (i), Articles 29 and 30 of Directive 2014/25/EU and Article 13 points (a) to (d), (f) to (h) and (j) of Directive 2009/81/EC, to or with:

▼ M16

- (a) a Russian national, a natural person residing in Russia, or a legal person, entity or body established in Russia;

▼ M16

- (b) a legal person, entity or body whose proprietary rights are directly or indirectly owned for more than 50 % by an entity referred to in point (a) of this paragraph; or
- (c) a natural or legal person, entity or body acting on behalf or at the direction of an entity referred to in point (a) or (b) of this paragraph,

including, where they account for more than 10 % of the contract value, subcontractors, suppliers or entities whose capacities are being relied on within the meaning of the public procurement Directives.

▼ M13

2. By way of derogation from paragraph 1, the competent authorities may authorise the award and continued execution of contracts intended for:

- (a) the operation, maintenance, decommissioning and radioactive waste management, fuel supply and retreatment and safety of civil nuclear capabilities, and the continuation of design, construction and commissioning required for the completion of civil nuclear facilities, as well as the supply of precursor material for the production of medical radioisotopes and similar medical applications, critical technology for environmental radiation monitoring, as well as civil nuclear cooperation, in particular in the field of research and development;
- (b) intergovernmental cooperation in space programmes;
- (c) the provision of strictly necessary goods or services which can only be provided, or which can only be provided in sufficient quantities, by the persons referred to in paragraph 1;
- (d) the functioning of diplomatic and consular representations of the Union and of the Member States in Russia, including delegations, embassies and missions, or international organisations in Russia enjoying immunities in accordance with international law; or

▼ M15

- (e) unless prohibited under Article 3m or 3n, the purchase, import or transport of natural gas and oil, including refined petroleum products, as well as titanium, aluminium, copper, nickel, palladium and iron ore from or through Russia into the Union.

▼ M25

▼ M13

3. The Member State concerned shall inform the other Member States and the Commission of any authorisations granted under this Article within two weeks of the authorisation.

4. The prohibitions in paragraph 1 shall not apply to the execution until 10 October 2022 of contracts concluded before 9 April 2022.

▼ **M13***Article 5l*

1. It shall be prohibited to provide direct or indirect support, including financing and financial assistance or any other benefit under a Union, Euratom or Member State national programme and contracts within the meaning of Regulation (EU, Euratom) 2018/1046 ⁽¹⁾, to any legal person, entity or body established in Russia with over 50 % public ownership or public control.

2. The prohibition in paragraph 1 shall not apply to:

- (a) humanitarian purposes, public health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment, or as a response to natural disasters;
- (b) phytosanitary and veterinary programmes;
- (c) intergovernmental cooperation in space programmes and under the International Thermonuclear Experimental Reactor Agreement;
- (d) the operation, maintenance, decommissioning and radioactive waste management, fuel supply and retreatment and safety of civil nuclear capabilities, as well as supply of precursor material for the production of medical radioisotopes and similar medical applications, critical technology for environmental radiation monitoring, as well as civil nuclear cooperation, in particular in the field of research and development;
- (e) mobility exchanges for individuals and people-to-people contacts;
- (f) climate and environmental programmes, with the exception of support in the context of research and innovation;
- (g) the functioning of diplomatic and consular representations of the Union and of the Member States in Russia, including delegations, embassies and missions, or international organisations in Russia enjoying immunities in accordance with international law.

▼ **M15***Article 5m*

1. It shall be prohibited to register, provide a registered office, business or administrative address as well as management services to, a trust or any similar legal arrangement having as a trustor or a beneficiary:

- (a) Russian nationals or natural persons residing in Russia;
- (b) legal persons, entities or bodies established in Russia;

⁽¹⁾ Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 (OJ L 193, 30.7.2018, p. 1).

▼ M15

- (c) legal persons, entities or bodies whose proprietary rights are directly or indirectly owned for more than 50 % by a natural or legal person, entity or body referred to in points (a) or (b);
- (d) legal persons, entities or bodies controlled by a natural or legal person, entity or body referred to in points (a), (b) or (c);
- (e) a natural or legal person, entity or body acting on behalf or at the direction of a natural or legal person, entity or body referred to in points (a), (b), (c) or (d).

2. It shall be prohibited as of 5 July 2022 to act as, or arrange for another person to act as, a trustee, nominee shareholder, director, secretary or a similar position, for a trust or similar legal arrangement as referred to in paragraph 1.

3. Paragraphs 1 and 2 shall not apply to the operations that are strictly necessary for the termination by 5 July 2022 of contracts which are not compliant with this Article concluded before 9 April 2022 or of ancillary contracts necessary for the execution of such contracts.

▼ M17

4. Paragraphs 1 and 2 shall not apply when the trustor or beneficiary is a national of a Member State, of a country member of the European Economic Area or of Switzerland, or a natural person having a temporary or permanent residence permit in a Member State, in a country member of the European Economic Area or in Switzerland.

▼ M15

5. By way of derogation from paragraph 2, the competent authorities may authorise, under such conditions as they deem appropriate, the services referred to in paragraph 2 to continue beyond 5 July 2022, for:

- (a) the completion by 5 September 2022 of operations strictly necessary for the termination of contracts referred to in paragraph 3, provided that such operations were initiated before 11 May 2022; or
- (b) other reasons, provided that the service providers do not accept from, or make available to, the persons referred to in paragraph 1 any funds or economic resources, directly or indirectly, or otherwise provide such persons with any benefit from assets placed in a trust.

6. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the services referred to in those paragraphs, under such conditions as they deem appropriate, after having determined that this is necessary for:

- (a) humanitarian purposes, such as delivering or facilitating the delivery of assistance, including medical supplies, food, or the transfer of humanitarian workers and related assistance or for evacuations;

▼ M15

- (b) civil society activities that directly promote democracy, human rights or the rule of law in Russia; or
- (c) the operation of trusts whose purpose is the administration of occupational pension schemes, insurance policies or employee share scheme, charities, amateur sports clubs, and funds for minors or vulnerable adults.

7. The Member State concerned shall inform the Commission of any authorisation granted under paragraph 5 or 6 within two weeks of such authorisation.

▼ M20*Article 5n*

1. It shall be prohibited to provide, directly or indirectly, accounting, auditing, including statutory audit, bookkeeping or tax consulting services, or business and management consulting or public relations services to:

- (a) the Government of Russia; or
- (b) legal persons, entities or bodies established in Russia.

2. It shall be prohibited to provide, directly or indirectly, architectural and engineering services, legal advisory services and IT consultancy services to:

- (a) the Government of Russia; or
- (b) legal persons, entities or bodies established in Russia.

2a. It shall be prohibited to provide market research and public opinion polling services, technical testing and analysis services and advertising services to:

- (a) the Government of Russia; or
- (b) legal persons, entities or bodies established in Russia.

3. Paragraph 1 shall not apply to the provision of services that are strictly necessary for the termination by 5 July 2022 of contracts which are not compliant with this Article concluded before 4 June 2022, or of ancillary contracts necessary for the execution of such contracts.

4. Paragraph 2 shall not apply to the provision of services that are strictly necessary for the termination by 8 January 2023 of contracts which are not compliant with this Article concluded before 7 October 2022, or of ancillary contracts necessary for the execution of such contracts.

▼ M20

4a. Paragraph 2a shall not apply to the provision of services that are strictly necessary for the termination by 16 January 2023 of contracts which are not compliant with this Article concluded before 17 December 2022, or of ancillary contracts necessary for the execution of such contracts.

5. Paragraphs 1 and 2 shall not apply to the provision of services that are strictly necessary for the exercise of the right of defence in judicial proceedings and the right to an effective legal remedy.

6. Paragraphs 1 and 2 shall not apply to the provision of services which are strictly necessary to ensure access to judicial, administrative or arbitral proceedings in a Member State, as well as for the recognition or enforcement of a judgment or an arbitration award rendered in a Member State, provided that such provision of services is consistent with the objectives of this Regulation and Regulation (EU) No 269/2014.

7. Paragraphs 1, 2 and 2a shall not apply to the provision of services intended for the exclusive use of legal persons, entities or bodies established in Russia that are owned by, or solely or jointly controlled by, a legal person, entity or body which is incorporated or constituted under the law of a Member State, a country member of the European Economic Area, Switzerland or a partner country as listed in Annex VIII.

8. Paragraphs 2 and 2a shall not apply to the provision of services necessary for public health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment, or as a response to natural disasters.

9. Paragraph 2 shall not apply to the provision of services necessary for software updates for non-military use and for a non-military end user, permitted by Articles 2(3)(d) and 2a(3)(d) in relation to goods listed in Annex VII.

▼ M25

9a. By way of derogation from paragraphs 1 and 2, the competent authorities may authorise the provision of services referred to therein, under such conditions as they deem appropriate, after having determined that those services are strictly necessary for the setting-up, certification or evaluation of a firewall which:

- (a) removes the control by a natural or legal person, entity or body listed in Annex I to Regulation (EU) No 269/2014, over the assets of a non-listed legal person, entity or body incorporated or constituted under the law of a Member State which is owned or controlled by the former; and
- (b) ensures that no further funds or economic resources accrue to the benefit of the listed natural or legal person, entity or body.

▼ M20

10. By way of derogation from paragraphs 1, 2 and 2a the competent authorities may authorise the services referred to therein, under such conditions as they deem appropriate, after having determined that this is necessary for:

▼ M20

- (a) humanitarian purposes, such as delivering or facilitating the delivery of assistance, including medical supplies, food, or the transfer of humanitarian workers and related assistance, or for evacuations;
- (b) civil society activities that directly promote democracy, human rights or the rule of law in Russia;
- (c) the functioning of diplomatic and consular representations of the Union and of the Member States or partner countries in Russia, including delegations, embassies and missions, or international organisations in Russia enjoying immunities in accordance with international law;
- (d) ensuring critical energy supply within the Union and the purchase, import or transport into the Union of titanium, aluminium, copper, nickel, palladium and iron ore;
- (e) ensuring the continuous operation of infrastructures, hardware and software which are critical for human health and safety, or the safety of the environment;
- (f) the establishment, operation, maintenance, fuel supply and retreatment and safety of civil nuclear capabilities, and the continuation of design, construction and commissioning required for the completion of civil nuclear facilities, the supply of precursor material for the production of medical radioisotopes and similar medical applications, or critical technology for environmental radiation monitoring, as well as for civil nuclear cooperation, in particular in the field of research and development; or
- (g) the provision of electronic communication services by Union telecommunication operators necessary for the operation, maintenance and security, including cybersecurity, of electronic communication services, in Russia, in Ukraine, in the Union, between Russia and the Union, and between Ukraine and the Union, and for data centre services in the Union.

▼ M25

11. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 9a and 10 within two weeks of the authorisation.

▼ M24*Article 5o*

1. It shall be prohibited as of 27 March 2023 to allow Russian nationals or natural persons residing in Russia to hold any posts in the governing bodies of the owners or operators of critical infrastructures, European critical infrastructures and critical entities.

2. Paragraph 1 shall not apply to nationals of a Member State, of a country member of the European Economic Area or of Switzerland.

▼ **M24***Article 5p*

1. It shall be prohibited to provide storage capacity as defined in Article 2(1), point 28 of Regulation (EC) No 715/2009 of the European Parliament and of the Council⁽¹⁾ in a storage facility as defined in Article 2, point 9 of Directive 2009/73/EC of the European Parliament and of the Council⁽²⁾, except for the part of liquefied natural gas facilities used for storage, to:

- (a) a Russian national, a natural person residing in Russia, or a legal person, entity or body established in Russia;
- (b) a legal person, entity or body whose proprietary rights are directly or indirectly owned for more than 50 % by a legal person, entity or body referred to in point (a) of this paragraph; or
- (c) a natural or legal person, entity or body acting on behalf or at the direction of a legal person, entity or body referred to in point (a) or (b) of this paragraph.

2. Paragraph 1 shall not apply to the operations that are strictly necessary for the termination by 27 March 2023 of contracts which are not compliant with this Article concluded before 26 February 2023 or of ancillary contracts necessary for the execution of such contracts.

3. By way of derogation from paragraph 1, the competent authorities may authorise, under such conditions as they deem appropriate, the provision of storage capacity as referred to in paragraph 1 after having determined that it is necessary for ensuring critical energy supply within the Union.

4. The Member State or Member States concerned shall inform the other Member States and the Commission of any authorisation granted under paragraph 3 within two weeks of the authorisation.

▼ **M25***Article 5q*

1. By way of derogation from Articles 2, 2a, 3f and 3k, the competent authorities may authorise the sale, supply, transfer, export or transit through Russia of the goods and technology referred to in those Articles, or the provision of related technical assistance, brokering services or other services, or financing or financial assistance, for the operation and maintenance of the Caspian Pipeline Consortium (CPC) pipelines and associated infrastructure necessary for the transport of goods falling under CN 2709 00 originating in Kazakhstan and which are only being loaded in, departing from or transiting through Russia, under such conditions as they deem appropriate, after having determined that:

⁽¹⁾ Regulation (EC) No 715/2009 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the natural gas transmission networks and repealing Regulation (EC) No 1775/2005 (OJ L 211, 14.8.2009, p. 36).

⁽²⁾ Directive 2009/73/EC of the European Parliament and of the Council of 13 July 2009 concerning common rules for the internal market in natural gas and repealing Directive 2003/55/EC (OJ L 211, 14.8.2009, p. 94).

▼ M25

- (a) such a sale, supply, transfer, export, transit through Russia or the provision of related technical assistance, brokering services or other services, or financing and financial assistance, is necessary for the operation, essential maintenance, repair or replacement of components of the CPC pipeline and associated infrastructure;
- (b) the type of goods, technologies and assistance requested does not go beyond the type of goods and technology previously exported from, or the assistance previously provided from, the Union, a country member of the European Economic Area, Switzerland or a partner country as listed in Annex VIII to Russia for the operation, essential maintenance, repair or replacement of components of the CPC pipeline and associated infrastructure, and related assistance;
- (c) the requested volumes are commensurate with those used for the operation, essential maintenance, repair or replacement of components of the CPC pipeline and associated infrastructure; and
- (d) such goods and technology will be provided by a natural or legal person subject to Article 13 exclusively for end use in the operation, essential maintenance, repair or replacement of components of the CPC pipeline and associated infrastructure.

2. By way of derogation from Article 5n, the competent authorities may authorise the provision of auditing services, engineering services, legal advisory services, technical testing and analysis services for the operation and maintenance of the CPC pipelines and associated infrastructure necessary for the transport of goods falling under CN 2709 00 originating in Kazakhstan and which are only being loaded in, departing from or transiting through Russia after having determined that:

- (a) the provision of those services is necessary for the operation, essential maintenance, repair or replacement of components of the CPC pipeline and associated infrastructure; and
- (b) such services are provided by a natural or legal person subject to Article 13.

3. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 1 and 2 within two weeks of the authorisation.

4. When granting an authorisation under paragraphs 1 and 2, the competent authority shall require the presentation of an end-user certificate and detailed regular reports indicating that no such goods, technology or services were diverted from their intended purpose during the relevant works. It may impose additional conditions, in accordance with paragraph 1.

▼ M7*Article 6*

1. The Member States and the Commission shall inform each other of the measures taken under this Regulation and share any other relevant information at their disposal in connection with this Regulation, in particular information in respect of:

▼ M25

- (a) authorisations granted or denied under this Regulation;

▼ M7

- (b) information received under Article 5g;
- (c) violation and enforcement problems and judgments handed down by national courts;

▼ M25

- (d) detected instances of breach, circumvention and attempts at breach or circumvention of the prohibitions set out in this Regulation including through the use of crypto-assets.

▼ M7

2. The Member States shall immediately inform each other and the Commission of any other relevant information at their disposal which might affect the effective implementation of this Regulation.

3. Any information provided or received in accordance with this Article shall be used for the purposes for which it was provided or received, including ensuring the effectiveness of the measures set out in this Regulation.

▼ M25*Article 6a*

1. The Member State or Member States concerned shall inform the other Member States and the Commission of any authorisation denied under Articles 3, 3a, 3b, 3c, 3d, 3ea, 3f, 3g, 3h, 3i, 3k, 3m, 3n, 5a, 5c, 5d, 5k, 5m, 5n, 5p and 12b within two weeks of the denial.

2. Before a Member State grants an authorisation in accordance with Articles 3, 3a, 3b, 3c, 3d, 3ea, 3f, 3g, 3h, 3i, 3k, 3m, 3n, 5a, 5c, 5d, 5k, 5m, 5n, 5p and 12b for a transaction which is essentially identical to a transaction which is the subject of a denial that is still valid issued by another Member State or by other Member States, it shall first consult the Member State or Member States which issued the denial. If, following such consultations, the Member State concerned decides to grant an authorisation, it shall inform the other Member States and the Commission thereof, providing all relevant information to explain that decision.

Article 6b

1. Consistent with respect for the confidentiality of communications between lawyers and their clients guaranteed in Article 7 of the Charter of Fundamental Rights of the European Union and, where applicable, without prejudice to rules regarding the confidentiality of information held by judicial authorities, natural and legal persons, entities and bodies shall:

- (a) supply any information which would facilitate the implementation of this Regulation to the competent authority of the Member State where they are resident or located within two weeks of acquiring this information; and
- (b) cooperate with the competent authority in any verification of such information.

▼ M25

2. The Member State concerned shall transmit to the Commission any relevant information received pursuant to paragraph 1 within one month of receiving it. The Member State concerned may transmit such information in an anonymised form if an investigating or judicial authority has declared it to be confidential in the context of pending criminal investigations or criminal judicial proceedings.

3. Any additional information received directly by the Commission shall be made available to the Member States.

4. Any information provided to or received by the competent authorities of the Member States in accordance with this Article shall be used by those authorities only for the purposes for which it was provided or received.

▼ M7*Article 7*

The Commission shall be empowered to amend Annexes I and IX on the basis of information supplied by Member States.

▼ M17*Article 7a*

The Commission shall amend:

- (a) Annex XXVIII in accordance with the decisions of the Council amending Decision 2014/512/CFSP to update the prices agreed by the Price Cap Coalition; and
- (b) Annex XXIX, in accordance with the decisions of the Council amending Decision 2014/512/CFSP to update the list of exempted energy projects on the basis of objective eligibility criteria agreed by the Price Cap Coalition.

▼ B*Article 8***▼ M15**

1. Member States shall lay down the rules on penalties, including as appropriate criminal penalties, applicable to infringements of the provisions of this Regulation and shall take all measures necessary to ensure that they are implemented. The penalties provided for must be effective, proportionate and dissuasive. Member States shall also provide for appropriate measures of confiscation of the proceeds of such infringements.

▼ B

2. Member States shall notify the rules referred to in paragraph 1 to the Commission without delay after the entry into force of this Regulation and shall notify it of any subsequent amendment.

Article 9

1. Member States shall designate the competent authorities referred to in this Regulation and identify them on the websites listed in Annex I. Member States shall notify the Commission of any changes in the addresses of their websites listed in Annex I.

▼B

2. Member States shall notify the Commission of their competent authorities, including the contact details of those competent authorities, without delay after the entry into force of this Regulation, and shall notify it of any subsequent amendment.

3. Where this Regulation sets out a requirement to notify, inform or otherwise communicate with the Commission, the address and other contact details to be used for such communication shall be those indicated in Annex I.

Article 10

Actions by natural or legal persons, entities or bodies shall not give rise to liability of any kind on their part, if they did not know, and had no reasonable cause to suspect, that their actions would infringe the measures set out in this Regulation.

▼M7*Article 11*

1. No claims in connection with any contract or transaction the performance of which has been affected, directly or indirectly, in whole or in part, by the measures imposed under this Regulation, including claims for indemnity or any other claim of this type, such as a claim for compensation or a claim under a guarantee, notably a claim for extension or payment of a bond, guarantee or indemnity, particularly a financial guarantee or financial indemnity, of whatever form, shall be satisfied, if they are made by:

▼M13

(a) legal persons, entities or bodies listed in the Annexes to this Regulation or legal persons, entities or bodies established outside the Union whose proprietary rights are directly or indirectly owned for more than 50 % by them;

▼M7

(b) any other Russian person, entity or body;

(c) any person, entity or body acting through or on behalf of one of the persons, entities or bodies referred to in points (a) or (b) of this paragraph.

2. In any proceedings for the enforcement of a claim, the onus of proving that satisfying the claim is not prohibited by paragraph 1 shall be on the person seeking the enforcement of that claim.

3. This Article is without prejudice to the right of the persons, entities and bodies referred to in paragraph 1 to judicial review of the legality of the non-performance of contractual obligations in accordance with this Regulation.

▼M12*Article 12*

It shall be prohibited to participate, knowingly and intentionally, in activities the object or effect of which is to circumvent prohibitions in this Regulation.

▼ **M7***Article 12a*

1. The Commission shall process personal data in order to carry out its tasks under this Regulation. These tasks include the handling of information on deposits and information on authorisations granted by the competent authorities.

▼ **M25**

2. For the purposes of this Regulation, the Commission is designated as ‘controller’ within the meaning of Article 3(8) of Regulation (EU) 2018/1725 in relation to the processing activities necessary to accomplish the tasks referred to in paragraph 1.

3. The competent authorities of the Member States, including enforcement authorities, customs authorities within the meaning of Regulation (EU) No 952/2013 of the European Parliament and of the Council ⁽¹⁾, competent authorities within the meaning of Regulation (EU) No 575/2013, Directive (EU) 2015/849 of the European Parliament and of the Council ⁽²⁾ and Directive 2014/65/EU, as well as administrators of official registers wherein natural persons, legal persons, entities and bodies as well as immovable or movable property are registered, shall process and exchange without delay information, including personal data and, if necessary, the information referred to in Article 6b(1), with other competent authorities of their Member State, of other Member States and the Commission, if such processing and exchange is necessary to carry out the tasks of the processing authority or the receiving authority under this Regulation, in particular when they detect instances of a breach or circumvention, or attempts at a breach or circumvention of the prohibitions set out in this Regulation. This provision is without prejudice to rules regarding the confidentiality of information held by judicial authorities.

▼ **M16**

4. Any processing of personal data shall be carried out in accordance with this Regulation and Regulations (EU) 2016/679 ⁽³⁾ and (EU) 2018/1725 ⁽⁴⁾ of the European Parliament and of the Council and only in so far as necessary for the application of this Regulation and to ensure effective cooperation between Member States as well as with the European Commission in the application of this Regulation.

⁽¹⁾ Regulation (EU) No 952/2013 of the European Parliament and of the Council of 9 October 2013 laying down the Union Customs Code (OJ L 269, 10.10.2013, p. 1).

⁽²⁾ Directive (EU) 2015/849 of the European Parliament and of the Council of 20 May 2015 on the prevention of the use of the financial system for the purposes of money laundering or terrorist financing, amending Regulation (EU) No 648/2012 of the European Parliament and of the Council, and repealing Directive 2005/60/EC of the European Parliament and of the Council and Commission Directive 2006/70/EC (OJ L 141, 5.6.2015, p. 73).

⁽³⁾ Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1).

⁽⁴⁾ Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

▼ **M20***Article 12b*▼ **M25**

1. By way of derogation from Articles 2, 2a, 3, 3b, 3c, 3f, 3h and 3k, the competent authorities may authorise the sale, supply or transfer of goods and technologies listed in Annexes II, VII, X, XI, XVI, XVIII, XX and XXIII to this Regulation and in Annex I to Regulation (EU) 2021/821 as well as the sale, licensing or transfer in any other way of intellectual property rights or trade secrets as well as granting rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets, related to the goods and technology mentioned above until 31 December 2023, where such sale, supply, transfer, licensing, granting rights to access or re-use is strictly necessary for the divestment from Russia or the wind-down of business activities in Russia, provided that the following conditions are fulfilled:

▼ **M20**

- (a) the goods and technologies are owned by a national of a Member State or by a legal person, entity or body which is incorporated or constituted under the law of a Member State or by legal persons, entities or bodies established in Russia that are owned by, or solely or jointly controlled by, a legal person, entity or body which is incorporated or constituted under the law of a Member State; and
- (b) the competent authorities deciding on requests for authorisations have no reasonable grounds to believe that the goods might be for a military end-user or have a military end-use in Russia; and
- (c) the concerned goods and technologies were physically located in Russia before the relevant prohibitions in Articles 2, 2a, 3, 3b, 3c, 3f, 3h or 3k entered into force in respect of those goods and technologies.

▼ **M25**

1a. By way of derogation from Article 3, the competent authorities may authorise the sale, supply or transfer of goods and technologies listed in Annex II until 31 March 2024, where such sale, supply or transfer is strictly necessary for the divestment from a joint venture incorporated or constituted under the law of a Member State before 24 February 2022, involving a Russian legal person, entity or body, and operating a gas pipeline infrastructure between Russia and third countries.

▼ **M20**

2. By way of derogation from Articles 3g and 3i, the competent authorities may authorise the import or transfer of goods listed in Annexes XVII and XXI until 30 September 2023, where such import or transfer is strictly necessary for the divestment from Russia or the wind-down of business activities in Russia, provided that the following conditions are fulfilled:

- (a) the goods are owned by a national of a Member State or by a legal person, entity or body which is incorporated or constituted under the law of a Member State or by legal persons, entities or bodies established in Russia that are owned by, or solely or jointly controlled by, a legal person, entity or body which is incorporated or constituted under the law of a Member State; and

▼ M20

- (b) the concerned goods were physically located in Russia before the relevant prohibitions in Articles 3g and 3i entered into force in respect of those goods.

▼ M25

2a. By way of derogation from Article 5n, the competent authorities may authorise the continuation of the provision of services listed therein until 31 March 2024 where such provision of services is strictly necessary for the divestment from Russia or the wind-down of business activities in Russia, provided that the following conditions are fulfilled:

▼ M24

- (a) such services are provided to and for the exclusive benefit of the legal persons, entities or bodies resulting from the divestment; and
- (b) the competent authorities deciding on requests for authorisations have no reasonable grounds to believe that the services might be provided, directly or indirectly, to the Government of Russia or a military end-user or have a military end-use in Russia.

▼ M25

2b. By way of derogation from Article 5n(2), the competent authorities may authorise the provision, until 31 March 2024, of legal advisory services which are legally required for the completion of a sale or transfer of proprietary rights directly or indirectly owned by legal persons, entities or bodies established in Russia in a legal person, entity or body established in the Union.

3. The Member State concerned shall inform the other Member States and the Commission of any authorisation granted under paragraphs 1, 1a, 2, 2a or 2b within two weeks of the authorisation.

▼ M20

4. All authorisations referred to in paragraph 1 with respect to goods and technologies listed in Annex VII as well as in Annex I to Regulation (EU) 2021/821 shall be issued by electronic means, whenever possible, on forms containing at least all the elements of, and in the order provided for in, the model C set out in Annex IX.

Article 12c

1. The competent authorities shall exchange information with the other Member States and the Commission on authorisations granted pursuant to paragraph 1 of Article 12b in relation to goods and technologies listed in Annex VII as well as in Annex I to Regulation (EU) 2021/821. The exchange of information shall be carried out using the electronic system provided pursuant to Article 23(6) of Regulation (EU) 2021/821.

2. Information received as a result of the application of this Article shall be used only for the purpose for which it was requested, including the exchanges mentioned in paragraph 4 of Article 2d.

3. Member States and the Commission shall ensure the protection of confidential information acquired in the application of this Article in accordance with Union law and the respective national law.

▼ M20

4. Member States and the Commission shall ensure that classified information provided or exchanged under this Article is not downgraded or declassified without the prior written consent of the originator.

▼ M24*Article 12d*

The prohibitions on providing technical assistance laid down in this Regulation shall not apply to the provision of pilot services to vessels in innocent passage as defined by international law which are necessary for reasons of maritime safety.

Article 12e

1. For the purposes of the prohibitions on importing goods provided for in this Regulation, goods physically in the Union may be released as provided for in Article 5, point (26) of the Union Customs Code ⁽¹⁾ by the customs authorities provided that they have been presented to customs in accordance with Article 134 of the Union Customs Code before the entry into force or applicability date of the respective import prohibitions, whichever is latest.

2. All procedural steps necessary for the release referred to in paragraphs 1 and 5 of the relevant goods pursuant to the Union Customs Code shall be allowed.

3. The customs authorities shall not allow the release of the goods if they have reasonable grounds to suspect circumvention and shall not authorise the re-export of the goods to Russia.

4. Payments in relation to such goods shall be consistent with the provisions and objectives of this Regulation, in particular the prohibition on purchasing, and Regulation (EU) No 269/2014.

5. Goods physically in the Union and presented to customs prior to 26 February 2023 which were stopped in application of this Regulation may be released by the customs authorities under the conditions provided for in paragraphs 1, 2, 3 and 4.

▼ M25*Article 12f*

1. It shall be prohibited to sell, supply, transfer or export, directly or indirectly, goods and technology as listed in Annex XXXIII, whether or not originating in the Union, to any natural or legal person, entity or body in the third country specified in that Annex.

2. It shall be prohibited to:

- (a) provide technical assistance, brokering services or other services related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in the third country specified;

⁽¹⁾ Regulation (EU) No 952/2013 of the European Parliament and of the Council of 9 October 2013 laying down the Union Customs Code (OJ L 269, 10.10.2013, p. 1).

▼M25

- (b) provide financing or financial assistance related to the goods and technology referred to in paragraph 1 for any sale, supply, transfer or export of those goods and technology, or for the provision of related technical assistance, brokering services or other services, directly or indirectly to any natural or legal person, entity or body in the third country specified;
- (c) sell, license or transfer in any other way intellectual property rights or trade secrets as well as grant rights to access or re-use any material or information protected by means of intellectual property rights or constituting trade secrets related to the goods and technology referred to in paragraph 1 and to the provision, manufacture, maintenance and use of those goods and technology, directly or indirectly to any natural or legal person, entity or body in the third country specified.

3. Annex XXXIII shall only include sensitive dual-use goods and technology, or goods and technology that might contribute to the enhancement of Russia's military, technological or industrial capacities or to the development of Russia's defence and security sector, in a way that strengthens its ability to wage war, and whose export to Russia is prohibited under this Regulation and that present a high and continuous risk of being sold, supplied, transferred or exported from third countries to Russia after being sold, supplied, transferred or exported from the Union. Annex XXXIII shall specify, for each item of listed goods or technology, the third countries to which the sale, supply, transfer or export is prohibited. Annex XXXIII shall only include third countries that have been identified by the Council as having systematically and persistently failed to prevent the sale, supply, transfer or export to Russia of goods and technology, as listed in that Annex, exported from the Union, despite the Union's prior outreach and assistance to the country in question.

4. If the sale, supply, transfer or export of goods or technology listed in Annex XXXIII to a natural or legal person, entity or body in Russia or for use in Russia is not prohibited under certain exemptions provided for in this Regulation, their sale, supply, transfer or export to a natural or legal person, entity or body in the third country specified shall not be prohibited, provided that the same conditions applicable under this Regulation for export to Russia or for use in Russia are fulfilled.

5. If the sale, supply, transfer or export of goods or technology listed in Annex XXXIII to a natural or legal person, entity or body in Russia or for use in Russia can be authorised by the competent authorities in accordance with this Regulation, their sale, supply, transfer or export to a natural or legal person, entity or body in the third country specified may be authorised by the competent authorities under the same conditions applicable to derogations for exports to Russia or for use in Russia.

▼B*Article 13*

This Regulation shall apply:

- (a) within the territory of the Union;
- (b) on board any aircraft or any vessel under the jurisdiction of a Member State;

▼B

- (c) to any person inside or outside the territory of the Union who is a national of a Member State;
- (d) to any legal person, entity or body, inside or outside the territory of the Union, which is incorporated or constituted under the law of a Member State;
- (e) to any legal person, entity or body in respect of any business done in whole or in part within the Union.

Article 14

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

▼ M14*ANNEX I*

BELGIUM

https://diplomatie.belgium.be/en/policy/policy_areas/peace_and_security/sanctions

BULGARIA

<https://www.mfa.bg/en/EU-sanctions>

CZECHIA

www.financnianalytickyrad.cz/mezinarodni-sankce.html

DENMARK

<http://um.dk/da/Udenrigspolitik/folkeretten/sanktioner/>

GERMANY

<https://www.bmwi.de/Redaktion/DE/Artikel/Aussenwirtschaft/embargos-aussenwirtschaftsrecht.html>

ESTONIA

<https://vm.ee/et/rahvusvahelised-sanktsioonid>

IRELAND

<https://www.dfa.ie/our-role/policies/ireland-in-the-eu/eu-restrictive-measures/>

GREECE

<http://www.mfa.gr/en/foreign-policy/global-issues/international-sanctions.html>

SPAIN

<https://www.exteriores.gob.es/es/PoliticaExterior/Paginas/SancionesInternacionales.aspx>

FRANCE

<http://www.diplomatie.gouv.fr/fr/autorites-sanctions/>

CROATIA

<https://mvep.gov.hr/vanjska-politika/medjunarodne-mjere-ogranicavanja/22955>

ITALY

https://www.esteri.it/it/politica-estera-e-cooperazione-allo-sviluppo/politica_europea/misure_deroghe/

CYPRUS

<https://mfa.gov.cy/themes/>

LATVIA

<http://www.mfa.gov.lv/en/security/4539>

LITHUANIA

<http://www.urm.lt/sanctions>

▼ M14**LUXEMBOURG**

<https://maee.gouvernement.lu/fr/directions-du-ministere/affaires-europeennes/organisations-economiques-int/mesures-restrictives.html>

HUNGARY

<https://kormany.hu/kulgaszdasagi-es-kulugyminiszterium/ensz-eu-szankcios-tajekoztato>

MALTA

<https://foreignandeu.gov.mt/en/Government/SMB/Pages/SMB-Home.aspx>

NETHERLANDS

<https://www.rijksoverheid.nl/onderwerpen/internationale-sancties>

AUSTRIA

<https://www.bmeia.gv.at/themen/aussenpolitik/europa/eu-sanktionen-nationale-behoerden/>

POLAND

<https://www.gov.pl/web/dyplomacja/sankcje-miedzynarodowe>

<https://www.gov.pl/web/diplomacy/international-sanctions>

PORTUGAL

<https://www.portaldiplomatico.mne.gov.pt/politica-externa/medidas-restritivas>

ROMANIA

<http://www.mae.ro/node/1548>

SLOVENIA

http://www.mzz.gov.si/si/omejevalni_ukrepi

SLOVAKIA

https://www.mzv.sk/europske_zalezitosti/europske_politiky-sankcie_eu

FINLAND

<https://um.fi/pakotteet>

SWEDEN

<https://www.regeringen.se/sanktioner>

Address for notifications to the European Commission:

European Commission

Directorate-General for Financial Stability, Financial Services and Capital Markets Union (DG FISMA)

Rue de Spa 2

B-1049 Brussels, Belgium

E-mail: relex-sanctions@ec.europa.eu

▼ B

ANNEX II

▼ M2

List of items referred to in Article 3

▼ B

CN code	Description
7304 11 00	Line pipe of a kind used for oil or gas pipelines, seamless, of stainless steel
7304 19 10	Line pipe of a kind used for oil or gas pipelines, seamless, of iron or steel, of an external diameter not exceeding 168,3 mm (excl. products of stainless steel or of cast iron)
7304 19 30	Line pipe of a kind used for oil or gas pipelines, seamless, of iron or steel, of an external diameter exceeding 168,3 mm but not exceeding 406,4 mm (excl. products of stainless steel or of cast iron)
7304 19 90	Line pipe of a kind used for oil or gas pipelines, seamless, of iron or steel, of an external diameter exceeding 406,4 mm (excl. products of stainless steel or of cast iron)
7304 22 00	Drill pipe, seamless, of stainless steel, of a kind used in drilling for oil or gas
7304 23 00	Drill pipe, seamless, of a kind used in drilling for oil or gas, of iron or steel (excl. products of stainless steel or of cast iron)
7304 29 10	Casing and tubing of a kind used for drilling for oil or gas, seamless, of iron or steel, of an external diameter not exceeding 168,3 mm (excl. products of cast iron)
7304 29 30	Casing and tubing of a kind used for drilling for oil or gas, seamless, of iron or steel, of an external diameter exceeding 168,3 mm, but not exceeding 406,4 mm (excl. products of cast iron)
7304 29 90	Casing and tubing of a kind used for drilling for oil or gas, seamless, of iron or steel, of an external diameter exceeding 406,4 mm (excl. products of cast iron)
7305 11 00	Line pipe of a kind used for oil or gas pipelines, having circular cross-sections and an external diameter of exceeding 406,4 mm, of iron or steel, longitudinally submerged arc welded
7305 12 00	Line pipe of a kind used for oil or gas pipelines, having circular cross-sections and an external diameter of exceeding 406,4 mm, of iron or steel, longitudinally arc welded (excl. products longitudinally submerged arc welded)
7305 19 00	Line pipe of a kind used for oil or gas pipelines, having circular cross-sections and an external diameter of exceeding 406,4 mm, of flat-rolled products of iron or steel (excl. products longitudinally arc welded)
7305 20 00	Casing of a kind used in drilling for oil or gas, having circular cross-sections and an external diameter of exceeding 406,4 mm, of flat-rolled products of iron or steel
7306 11	Line pipe of a kind used for oil or gas pipelines, welded, of flat-rolled products of stainless steel, of an external diameter of not exceeding 406,4 mm
7306 19	Line pipe of a kind used for oil or gas pipelines, welded, of flat-rolled products of iron or steel, of an external diameter of not exceeding 406,4 mm (excl. products of stainless steel or of cast iron)
7306 21 00	Casing and tubing of a kind used in drilling for oil or gas, welded, of flat-rolled products of stainless steel, of an external diameter of not exceeding 406,4 mm

▼ B

CN code	Description
7306 29 00	Casing and tubing of a kind used in drilling for oil or gas, welded, of flat-rolled products of iron or steel, of an external diameter of not exceeding 406,4 mm (excl. products of stainless steel or of cast iron)
8207 13 00	Rock-drilling or earth-boring tools, interchangeable, with working parts of sintered metal carbides or cermets
8207 19 10	Rock-drilling or earth-boring tools, interchangeable, with working parts of diamond or agglomerated diamond

▼ M2

ex 8413 50	Reciprocating positive displacement pumps for liquids, power-driven with a maximum flow-rate greater than 18 m ³ /hour and a maximum outlet pressure greater than 40 bar, specially designed to pump drilling muds and/or cement into oil wells
ex 8413 60	Rotary positive displacement pumps for liquids, power-driven with a maximum flow-rate greater than 18 m ³ /hour and a maximum outlet pressure greater than 40 bar, specially designed to pump drilling muds and/or cement into oil wells

▼ B

8413 82 00	Liquid elevators (excl. pumps)
8413 92 00	Parts of liquid elevators, n.e.s.
8430 49 00	Boring or sinking machinery for boring earth or extracting minerals or ores, not self-propelled and not hydraulic (excl. tunnelling machinery and hand-operated tools)

▼ M2

ex 8431 39 00	Parts suitable for use solely or principally with the oil field machinery of heading 8428
ex 8431 43 00	Parts suitable for use solely or principally with the oil field machinery of subheadings 8430 41 or 8430 49
ex 8431 49	Parts suitable for use solely or principally with the oil field machinery of heading 8426, 8429 and 8430

▼ B

8705 20 00	Mobile drilling derricks
8905 20 00	Floating or submersible drilling or production platforms
8905 90 10	Sea-going light vessels, fire-floats, floating cranes and other vessels, the navigability of which is subsidiary to their main function (excl. dredgers, floating or submersible drilling or production platforms; fishing vessels and warships)

▼ **M7**

ANNEX III

List of legal persons, entities and bodies referred to in Article 5(1)(a)

▼ **B**

1. SBERBANK
2. VTB BANK
3. GAZPROMBANK
4. VNESHECONOMBANK (VEB)
5. ROSSELKHOZBANK

▼ **M25***ANNEX IV*

This Annex lists natural or legal persons, entities or bodies which are military end-users, form part of Russia's military-industrial complex or which have commercial or other links with or which otherwise support Russia's defence and security sector. These natural or legal persons, entities or bodies contribute to Russia's military and technological enhancement or to the development of Russia's defence and security sector. They include natural or legal persons, entities or bodies in third countries other than Russia. Their inclusion in this Annex does not entail any attribution of responsibility for their actions to the jurisdiction in which they are operating.

List of natural or legal persons, entities or bodies, referred to in Articles 2(7), 2a(7) and 2b(1)

1. JSC Sirius (Russia)
2. OJSC Stankoinstrument (Russia)
3. OAO JSC Chemcomposite (Russia)
4. JSC Kalashnikov (Russia)
5. JSC Tula Arms Plant (Russia)
6. NPK Technologii Maschinostrojenija (Russia)
7. OAO Wysokototschnye Kompleksi (Russia)
8. OAO Almaz Antey (Russia)
9. OAO NPO Bazalt (Russia)
10. Admiralty Shipyard JSC (Russia)
11. Aleksandrov Scientific Research Technological Institute NITI (Russia)
12. Argut OOO (Russia)
13. Communication center of the Ministry of Defense (Russia)
14. Federal Research Center Boreskov Institute of Catalysis (Russia)
15. Federal State Budgetary Enterprise of the Administration of the President of Russia (Russia)
16. Federal State Budgetary Enterprise Special Flight Unit Rossiya of the Administration of the President of Russia (Russia)
17. Federal State Unitary Enterprise Dukhov Automatics Research Institute (VNIIA) (Russia)
18. Foreign Intelligence Service (SVR) (Russia)
19. Forensic Center of Nizhniy Novgorod Region Main Directorate of the Ministry of Interior Affairs (Russia)
20. International Center for Quantum Optics and Quantum Technologies (the Russian Quantum Center) (Russia)
21. Irkut Corporation (Russia)
22. Irkut Research and Production Corporation Public Joint Stock Company (Russia)

▼ M25

23. Joint Stock Company Scientific Research Institute of Computing Machinery (Russia)
24. JSC Central Research Institute of Machine Building (JSC TsNIIMash) (Russia)
25. JSC Kazan Helicopter Plant Repair Service (Russia)
26. JSC Shipyard Zaliv (Zaliv Shipbuilding yard) (Autonomous Republic of Crimea, illegally annexed by Russia)
27. JSC Rocket and Space Centre – Progress (Russia)
28. Kamensk-Uralsky Metallurgical Works J.S. Co. (Russia)
29. Kazan Helicopter Plant PJSC (Russia)
30. Komsomolsk-na-Amur Aviation Production Organization (KNAAPO) (Russia)
31. Ministry of Defence RF (Russia)
32. Moscow Institute of Physics and Technology (Russia)
33. NPO High Precision Systems JSC (Russia)
34. NPO Splav JSC (Russia)
35. OPK Oboronprom (Russia)
36. PJSC Beriev Aircraft Company (Russia)
37. PJSC Irkut Corporation (Russia)
38. PJSC Kazan Helicopters (Russia)
39. POLYUS Research Institute of M.F. Stelmakh Joint Stock Company (Russia)
40. Promtech-Dubna, JSC (Russia)
41. Public Joint Stock Company United Aircraft Corporation (Russia)
42. Radiotechnical and Information Systems (RTI) Concern (Russia)
43. Rapart Services LLC (Russia)
44. Rosoboronexport OJSC (ROE) (Russia)
45. Rostec (Russian Technologies State Corporation) (Russia)
46. Rostekh – Azimuth (Russia)
47. Russian Aircraft Corporation MiG (Russia)
48. Russian Helicopters JSC (Russia)
49. SP KVANT (Sovmestnoe Predpriyatie Kvantovye Tekhnologii) (Russia)
50. Sukhoi Aviation JSC (Russia)
51. Sukhoi Civil Aircraft (Russia)
52. Tactical Missiles Corporation JSC (Russia)

▼ M25

53. Tupolev JSC (Russia)
54. UEC-Saturn (Russia)
55. United Aircraft Corporation (Russia)
56. JSC AeroKompozit (Russia)
57. United Engine Corporation (Russia)
58. UEC-Aviadvigatel JSC (Russia)
59. United Instrument Manufacturing Corporation (Russia)
60. United Shipbuilding Corporation (Russia)
61. JSC PO Sevmash (Russia)
62. Krasnoye Sormovo Shipyard (Russia)
63. Severnaya Shipyard (Russia)
64. Shipyard Yantar (Russia)
65. UralVagonZavod (Russia)
66. Baikal Electronics (Russia)
67. Center for Technological Competencies in Radiophotonics (Russia)
68. Central Research and Development Institute Tsiklon (Russia)
69. Crocus Nano Electronics (Russia)
70. Dalzavod Ship-Repair Center (Russia)
71. Elara (Russia)
72. Electronic Computing and Information Systems (Russia)
73. ELPROM (Russia)
74. Engineering Center Ltd. (Russia)
75. Forss Technology Ltd. (Russia)
76. Integral SPB (Russia)
77. JSC Element (Russia)
78. JSC Pella-Mash (Russia)
79. JSC Shipyard Vympel (Russia)
80. Kranark LLC (Russia)
81. Lev Anatolyevich Yershov (Ershov) (Russia)
82. LLC Center (Russia)
83. MCST Lebedev (Russia)
84. Miass Machine-Building Factory (Russia)

▼ M25

85. Microelectronic Research and Development Center Novosibirsk (Russia)
86. MPI VOLNA (Russia)
87. N.A. Dollezhal Order of Lenin Research and Design Institute of Power Engineering (Russia)
88. Nerpa Shipyard (Russia)
89. NM-Tekh (Russia)
90. Novorossiysk Shipyard JSC (Russia)
91. NPO Electronic Systems (Russia)
92. NPP Istok (Russia)
93. NTC Metrotek (Russia)
94. OAO GosNIIkhimanalit (Russia)
95. OAO Svetlovskoye Predpriyatiye Era (Russia)
96. OJSC TSRY (Russia)
97. OOO Elkomtek (Elkomtek) (Russia)
98. OOO Planar (Russia)
99. OOO Sertal (Russia)
100. Photon Pro LLC (Russia)
101. PJSC Zvezda (Russia)
102. Amur Shipbuilding Factory PJSC (Russia)
103. AO Center of Shipbuilding and Ship Repairing JSC (Russia)
104. AO Kronshtadt (Russia)
105. Avant Space LLC (Russia)
106. Production Association Strela (Russia)
107. Radioavtomatika (Russia)
108. Research Center Module (Russia)
109. Robin Trade Limited (Russia)
110. R.Ye. Alekseyev Central Design Bureau for Hydrofoil Ships (Russia)
111. Rubin Sever Design Bureau (Russia)
112. Russian Space Systems (Russia)
113. Rybinsk Shipyard Engineering (Russia)
114. Scientific Research Institute of Applied Chemistry (Russia)
115. Scientific-Research Institute of Electronics (Russia)

▼ M25

116. Scientific Research Institute of Hypersonic Systems (Russia)
117. Scientific Research Institute NII Submikron (Russia)
118. Sergey IONOV (Russia)
119. Serniya Engineering (Russia)
120. Severnaya Verf Shipbuilding Factory (Russia)
121. Ship Maintenance Center Zvezdochka (Russia)
122. State Governmental Scientific Testing Area of Aircraft Systems (GKNIPAS) (Russia)
123. State Machine Building Design Bureau Raduga Bereznya (Russia)
124. State Scientific Center AO GNTs RF—FEI A.I. Leypunskiy Physico-Energy Institute (Russia)
125. State Scientific Research Institute of Machine Building Bakhirev (GosNII mash) (Russia)
126. Tomsk Microwave and Photonic Integrated Circuits and Modules Collective Design Center (Russia)
127. UAB Pella-Fjord (Russia)
128. United Shipbuilding Corporation JSC '35th Shipyard' (Russia)
129. United Shipbuilding Corporation JSC 'Astrakhan Shipyard' (Russia)
130. United Shipbuilding Corporation JSC 'Aysberg Central Design Bureau' (Russia)
131. United Shipbuilding Corporation JSC 'Baltic Shipbuilding Factory' (Russia)
132. United Shipbuilding Corporation JSC 'Krasnoye Sormovo Plant OJSC' (Russia)
133. United Shipbuilding Corporation JSC SC 'Zvyozdochka' (Russia)
134. United Shipbuilding Corporation 'Pribaltic Shipbuilding Factory Yantar' (Russia)
135. United Shipbuilding Corporation 'Scientific Research Design Technological Bureau Onega' (Russia)
136. United Shipbuilding Corporation 'Sredne-Nevisky Shipyard' (Russia)
137. Ural Scientific Research Institute for Composite Materials (Russia)
138. Urals Project Design Bureau Detal (Russia)
139. Vega Pilot Plant (Russia)
140. Vertikal LLC (Russia)
141. Vladislav Vladimirovich Fedorenko (Russia)
142. VTK Ltd (Russia)
143. Yaroslavl Shipbuilding Factory (Russia)

▼ M25

144. ZAO Elmiks-VS (Russia)
145. ZAO Sparta (Russia)
146. ZAO Svyaz Inzhiniring (Russia)
147. 46th TSNII Central Scientific Research Institute (Russia)
148. Alagir Resistor Factory (Russia)
149. All-Russian Research Institute of Optical and Physical Measurements (Russia)
150. All-Russian Scientific-Research Institute Etalon JSC (Russia)
151. Almaz JSC (Russia)
152. Arzam Scientific Production Enterprise Temp Avia (Russia)
153. Automated Procurement System for State Defense Orders, LLC (Russia)
154. Dolgoprudniy Design Bureau of Automatics (DDBA JSC) (Russia)
155. Electronic Computing Technology Scientific-Research Center JSC (Russia)
156. Electrosignal JSC (Russia)
157. Energiya JSC (Russia)
158. Engineering Center Moselectronproekt (Russia)
159. Etalon Scientific and Production Association (Russia)
160. Evgeny Krayushin (Russia)
161. Foreign Trade Association Mashpriborintorg (Russia)
162. Ineko LLC (Russia)
163. Informakustika JSC (Russia)
164. Institute of High Energy Physics (Russia)
165. Institute of Theoretical and Experimental Physics (Russia)
166. Inteltech PJSC (Russia)
167. ISE SO RAN Institute of High-Current Electronics (Russia)
168. Kaluga Scientific-Research Institute of Telemachanical Devices JSC (Russia)
169. Kulon Scientific-Research Institute JSC (Russia)
170. Lutch Design Office JSC (Russia)
171. Meteor Plant JSC (Russia)
172. Moscow Communications Research Institute JSC (Russia)
173. Moscow Order of the Red Banner of Labor Research Radio Engineering Institute JSC (Russia)

▼ M25

174. NPO Elektromechaniki JSC (Russia)
175. Omsk Production Union Irtysh JSC (Russia)
176. Omsk Scientific-Research Institute of Instrument Engineering JSC (Russia)
177. Optron, JSC (Russia)
178. Pella Shipyard OJSC (Russia)
179. Polyot Chelyabinsk Radio Plant JSC (Russia)
180. Pskov Distance Communications Equipment Plant (Russia)
181. Radiozavod JSC (Russia)
182. Razryad JSC (Russia)
183. Research Production Association Mars (Russia)
184. Ryazan Radio-Plant (Russia)
185. Scientific Production Center Vigstar JSC (Russia)
186. Scientific Production Enterprise 'Radiosviaz' (Russia)
187. Scientific Research Institute Ferrite-Domen (Russia)
188. Scientific Research Institute of Communication Management Systems (Russia)
189. Scientific-Production Association and Scientific-Research Institute of Radio-Components (Russia)
190. Scientific-Production Enterprise 'Kant' (Russia)
191. Scientific-Production Enterprise 'Svyaz' (Russia)
192. Scientific-Production Enterprise Almaz JSC (Russia)
193. Scientific-Production Enterprise Salyut JSC (Russia)
194. Scientific-Production Enterprise Volna (Russia)
195. Scientific-Production Enterprise Vostok JSC (Russia)
196. Scientific-Research Institute 'Argon' (Russia)
197. Scientific-Research Institute and Factory Platan (Russia)
198. Scientific-Research Institute of Automated Systems and Communications Complexes Neptune JSC (Russia)
199. Special Design and Technical Bureau for Relay Technology (Russia)
200. Special Design Bureau Salute JSC (Russia)
201. Tactical Missile Company, Joint Stock Company 'Salute' (Russia)
202. Tactical Missile Company, Joint Stock Company 'State Machine Building Design Bureau "Vympel" By Name I.I.Toropov' (Russia)

▼ M25

203. Tactical Missile Company, Joint Stock Company 'URALELEMENT' (Russia)
204. Tactical Missile Company, Joint Stock Company 'Plant Dagdiesel' (Russia)
205. Tactical Missile Company, Joint Stock Company 'Scientific Research Institute of Marine Heat Engineering' (Russia)
206. Tactical Missile Company, Joint Stock Company PA Strela (Russia)
207. Tactical Missile Company, Joint Stock Company Plant Kulakov (Russia)
208. Tactical Missile Company, Joint Stock Company Ravenstvo (Russia)
209. Tactical Missile Company, Joint Stock Company Ravenstvo-service (Russia)
210. Tactical Missile Company, Joint Stock Company Saratov Radio Instrument Plant (Russia)
211. Tactical Missile Company, Joint Stock Company Severny Press (Russia)
212. Tactical Missile Company, Joint-Stock Company 'Research Center for Automated Design' (Russia)
213. Tactical Missile Company, KB Mashinostroeniya (Russia)
214. Tactical Missile Company, NPO Electromechanics (Russia)
215. Tactical Missile Company, NPO Lightning (Russia)
216. Tactical Missile Company, Petrovsky Electromechanical Plant 'Molot' (Russia)
217. Tactical Missile Company, PJSC 'MBDB "ISKRA"' (Russia)
218. Tactical Missile Company, PJSC ANPP Temp Avia (Russia)
219. Tactical Missile Company, Raduga Design Bureau (Russia)
220. Tactical Missile Corporation, 'Central Design Bureau of Automation' (Russia)
221. Tactical Missile Corporation, 711 Aircraft Repair Plant (Russia)
222. Tactical Missile Corporation, AO GNPP 'Region' (Russia)
223. Tactical Missile Corporation, AO TMKB 'Soyuz' (Russia)
224. Tactical Missile Corporation, Azov Optical and Mechanical Plant (Russia)
225. Tactical Missile Corporation, Concern 'MPO – Gidropribor' (Russia)
226. Tactical Missile Corporation, Joint Stock Company 'KRASNY GIDROPPRESS' (Russia)
227. Tactical Missile Corporation, Joint Stock Company Avangard (Russia)
228. Tactical Missile Corporation, Joint Stock Company Concern Granit-Electron (Russia)
229. Tactical Missile Corporation, Joint Stock Company Elektrotyaga (Russia)

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- 230. Tactical Missile Corporation, Joint Stock Company GosNIIMash (Russia)
- 231. Tactical Missile Corporation, RKB Globus (Russia)
- 232. Tactical Missile Corporation, Smolensk Aviation Plant (Russia)
- 233. Tactical Missile Corporation, TRV Engineering (Russia)
- 234. Tactical Missile Corporation, Ural Design Bureau 'Detal' (Russia)
- 235. Tactical Missile Corporation, Zvezda-Strela Limited Liability Company (Russia)
- 236. Tambov Plant (TZ) 'October' (Russia)
- 237. United Shipbuilding Corporation 'Production Association Northern Machine Building Enterprise' (Russia)
- 238. United Shipbuilding Corporation '5th Shipyard' (Russia)
- 239. Federal Center for Dual-Use Technology (FTsDT) Soyuz (Russia)
- 240. Turayev Machine Building Design Bureau Soyuz (Russia)
- 241. Zhukovskiy Central Aerohydrodynamics Institute (TsAGI) (Russia)
- 242. Rosatomflot (Russia)
- 243. Lyulki Experimental-Design Bureau (Russia)
- 244. Lyulki Science and Technology Center (Russia)
- 245. AO Aviaagregat (Russia)
- 246. Central Aerohydrodynamic Institute (TsAGI) (Russia)
- 247. Closed Joint Stock Company Turborus (Turborus) (Russia)
- 248. Federal Autonomous Institution Central Institute of Engine-Building N.A. P.I. Baranov; Central Institute of Aviation Motors (CIAM) (Russia)
- 249. Federal State Budgetary Institution National Research Center Institute N.A. N.E. Zhukovsky (Zhukovsky National Research Institute) (Russia)
- 250. Federal State Unitary Enterprise 'State Scientific-Research Institute for Aviation Systems' (GosNIIAS) (Russia)
- 251. Joint Stock Company 123 Aviation Repair Plant (123 ARZ) (Russia)
- 252. Joint Stock Company 218 Aviation Repair Plant (218 ARZ) (Russia)
- 253. Joint Stock Company 360 Aviation Repair Plant (360 ARZ) (Russia)
- 254. Joint Stock Company 514 Aviation Repair Plant (514 ARZ) (Russia)
- 255. Joint Stock Company 766 UPTK (Russia)
- 256. Joint Stock Company Aramil Aviation Repair Plant (AARZ) (Russia)
- 257. Joint Stock Company Aviaremont (Aviaremont) (Russia)

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- 258. Joint Stock Company Flight Research Institute N.A. M.M. Gromov (FRI Gromov) (Russia)
- 259. Joint Stock Company Metallist Samara (Metallist Samara) (Russia)
- 260. Joint Stock Company Moscow Machine-Building Enterprise named after V. V. Chernyshev (MMP V.V. Chernyshev) (Russia)
- 261. JSC NII Steel (Russia)
- 262. Joint Stock Company Remdizel (Russia)
- 263. Joint Stock Company Special Industrial and Technical Base Zvezdochka (SPTB Zvezdochka) (Russia)
- 264. Joint Stock Company STAR (Russia)
- 265. Joint Stock Company Votkinsk Machine Building Plant (Russia)
- 266. Joint Stock Company Yaroslav Radio Factory (Russia)
- 267. Joint Stock Company Zlatoustovsky Machine Building Plant (JSC Zlatmash) (Russia)
- 268. Limited Liability Company Center for Specialized Production OSK Propulsion (OSK Propulsion) (Russia)
- 269. Lytkarino Machine-Building Plant (Russia)
- 270. Moscow Aviation Institute (Russia)
- 271. Moscow Institute of Thermal Technology (Russia)
- 272. Omsk Motor-Manufacturing Design Bureau (Russia)
- 273. Open Joint Stock Company 170 Flight Support Equipment Repair Plant (170 RZ SOP) (Russia)
- 274. Open Joint Stock Company 20 Aviation Repair Plant (20 ARZ) (Russia)
- 275. Open Joint Stock Company 275 Aviation Repair Plant (275 ARZ) (Russia)
- 276. Open Joint Stock Company 308 Aviation Repair Plant (308 ARZ) (Russia)
- 277. Open Joint Stock Company 32 Repair Plant of Flight Support Equipment (32 RZ SOP) (Russia)
- 278. Open Joint Stock Company 322 Aviation Repair Plant (322 ARZ) (Russia)
- 279. Open Joint Stock Company 325 Aviation Repair Plant (325 ARZ) (Russia)
- 280. Open Joint Stock Company 680 Aircraft Repair Plant (680 ARZ) (Russia)
- 281. Open Joint Stock Company 720 Special Flight Support Equipment Repair Plant (720 RZ SOP) (Russia)
- 282. Open Joint Stock Company Volgograd Radio-Technical Equipment Plant (VZ RTO) (Russia)
- 283. Public Joint Stock Company Agregat (PJSC Agregat) (Russia)

▼ M25

- 284. Salute Gas Turbine Research and Production Center (Russia)
- 285. Scientific-Production Association Vint of Zvezdochka Shipyard (SPU Vint) (Russia)
- 286. Scientific Research Institute of Applied Acoustics (NIIPA) (Russia)
- 287. Siberian Scientific-Research Institute of Aviation N.A. S.A. Chaplygin (SibNIA) (Russia)
- 288. Software Research Institute (Russia)
- 289. Subsidiary Sevastopol Naval Plant of Zvezdochka Shipyard (Sevastopol Naval Plant) (City of Sevastopol, illegally annexed by Russia)
- 290. Tula Arms Plant (Russia)
- 291. Russian Institute of Radio Navigation and Time (Russia)
- 292. Federal Technical Regulation and Metrology Agency (Rosstandart) (Russia)
- 293. Federal State Budgetary Institution of Science P.I. K.A. Valiev RAS of the Ministry of Science and Higher Education of Russia (FTIAN) (Russia)
- 294. Federal State Unitary Enterprise All-Russian Research Institute of Physical, Technical and Radio Engineering Measurements (VNIIFTRI) (Russia)
- 295. Institute of Physics Named After P.N. Lebedev of the Russian Academy of Sciences (LPI) (Russia)
- 296. The Institute of Solid-State Physics of the Russian Academy of Sciences (ISSP) (Russia)
- 297. Rzhzanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences (IPP SB RAS) (Russia)
- 298. UEC-Perm Engines, JSC (Russia)
- 299. Ural Works of Civil Aviation, JSC (Russia)
- 300. Central Design Bureau for Marine Engineering 'Rubin', JSC (Russia)
- 301. 'Aeropribor-Voskhod', JSC (Russia)
- 302. Aerospace Equipment Corporation, JSC (Russia)
- 303. Central Research Institute of Automation and Hydraulics (CNIIAG), JSC (Russia)
- 304. Aerospace Systems Design Bureau, JSC (Russia)
- 305. Afanasyev Technomac, JSC (Russia)
- 306. Ak Bars Shipbuilding Corporation, CJSC (Russia)
- 307. AGAT, Gavrillov-Yaminskiy Machine-Building Plant, JSC (Russia)
- 308. Almaz Central Marine Design Bureau, JSC (Russia)
- 309. Joint Stock Company Eleron (Russia)

▼ M25

- 310. AO Rubin (Russia)
- 311. Branch of AO Company Sukhoi Yuri Gagarin Komsomolsk-on-Amur Aircraft Plant (Russia)
- 312. Branch of PAO II – Aviastar (Russia)
- 313. Branch of RSK MiG Nizhny Novgorod Aircraft-Construction Plant Sokol (Russia)
- 314. Chkalov Novosibirsk Aviation Plant (Russia)
- 315. Joint Stock Company All-Russian Scientific-Research Institute Gradient (Russia)
- 316. Joint Stock Company Almatyevsk Radiopribor Plant (JSC AZRP) (Russia)
- 317. Joint Stock Company Experimental-Design Bureau Elektroavtomatika in the name of P.A. Efimov (Russia)
- 318. Joint Stock Company Industrial Controls Design Bureau (Russia)
- 319. Joint Stock Company Kazan Instrument-Engineering and Design Bureau (Russia)
- 320. Joint Stock Company Microtechnology (Russia)
- 321. Phasotron Scientific-Research Institute of Radio-Engineering (Russia)
- 322. Joint Stock Company Radiopribor (Russia)
- 323. Joint Stock Company Ramensk Instrument-Engineering Bureau (Russia)
- 324. Joint Stock Company Research and Production Center SAPSAN (Russia)
- 325. Joint Stock Company Rychag (Russia)
- 326. Joint Stock Company Scientific Production Enterprise Izmeritel (Russia)
- 327. Joint Stock Company Scientific-Production Union for Radioelectronics named after V.I. Shimko (Russia)
- 328. Joint Stock Company Taganrog Communications Scientific-Research Institute (Russia)
- 329. Joint Stock Company Urals Instrument-Engineering Plant (Russia)
- 330. Joint Stock Company Vzlet Engineering Testing Support (Russia)
- 331. Joint Stock Company Zhiguli Radio Plant (Russia)
- 332. Joint Stock Company Bryansk Electromechanical Plant (Russia)
- 333. Public Joint Stock Company Moscow Institute of Electro-Mechanics and Automation (Russia)
- 334. Public Joint Stock Company Stavropol Radio Plant Signal (Russia)
- 335. Public Joint Stock Company Techpribor (Russia)
- 336. Joint Stock Company Ramensky Instrument-Engineering Plant (Russia)

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- 337. V.V. Tarasov Avia Avtomatika (Russia)
- 338. Design Bureau of Chemical Machine Building KBKhM (Russia)
- 339. Far Eastern Shipbuilding and Ship Repair Center (Russia)
- 340. Ilyushin Aviation Complex Branch: Myasishcheva Experimental Mechanical Engineering Plant (Russia)
- 341. Institute of Marine Technology Problems Far East Branch Russian Academy of Sciences (Russia)
- 342. Irkutsk Aviation Plant (Russia)
- 343. Joint Stock Company Aerocomposit Ulyanovsk Plant (Russia)
- 344. Joint Stock Company Experimental Design Bureau named after A.S. Yakovlev (Russia)
- 345. Joint Stock Company Federal Research and Production Center Altai (Russia)
- 346. Joint Stock Company “Head Special Design Bureau Prozhektor (Russia)
- 347. Joint Stock Company Ilyushin Aviation Complex (Russia)
- 348. Joint Stock Company Lazurit Central Design Bureau (Russia)
- 349. Joint Stock Company Research and Development Enterprise Protek (Russia)
- 350. Joint Stock Company SPMDB Malachite (Russia)
- 351. Joint Stock Company Votkinsky Zavod (Russia)
- 352. Kalyazinsky Machine Building Factory – Branch of RSK MiG (Russia)
- 353. Main Directorate of Deep-Sea Research of the Ministry of Defense of the Russian Federation (Russia)
- 354. NPP Start (Russia)
- 355. OAO Radiofizika (Russia)
- 356. P.A. Voronin Lukhovitsk Aviation Plant, branch of RSK MiG (Russia)
- 357. Public Joint Stock Company Bryansk Special Design Bureau (Russia)
- 358. Public Joint Stock Company Voronezh Joint Stock Aircraft Company (Russia)
- 359. Radio Technical Institute named after A. L. Mints (Russia)
- 360. Russian Federal Nuclear Center – All-Russian Research Institute of Experimental Physics (Russia)
- 361. Shvabe JSC (Russia)
- 362. Special Technological Center LLC (Russia)
- 363. St. Petersburg Marine Bureau of Machine Building Malakhit (Russia)

▼ M25

- 364. St. Petersburg Naval Design Bureau Almaz (Russia)
- 365. St. Petersburg Shipbuilding Institution Krylov 45 (Russia)
- 366. Strategic Control Posts Corporation (Russia)
- 367. V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences (Russia)
- 368. Vladimir Design Bureau for Radio Communications OJSC (Russia)
- 369. Voentelecom JSC (Russia)
- 370. A.A. Kharkevich Institute for Information Transmission Problems (IITP), Russian Academy of Sciences (RAS) (Russia)
- 371. Ak Bars Holding (Russia)
- 372. Special Research Bureau for Automation of Marine Researches Far East Branch Russian Academy of Sciences (Russia)
- 373. Systems of Biological Synthesis LLC (Russia)
- 374. Borisfen, JSC (Russia)
- 375. Barnaul cartridge plant, JSC (Russia)
- 376. Concern Aurora Scientific and Production Association, JSC (Russia)
- 377. Bryansk Automobile Plant, JSC (Russia)
- 378. Burevestnik Central Research Institute, JSC (Russia)
- 379. Research Institute of Space Instrumentation, JSC (Russia)
- 380. Arsenal Machine-building plant, OJSC (Russia)
- 381. Central Design Bureau of Automatics, JSC (Russia)
- 382. Zelenodolsk Design Bureau, JSC (Russia)
- 383. Zavod Elecon, JSC (Russia)
- 384. VMP 'Avitec', JSC (Russia)
- 385. JSC V. Tikhomirov Scientific Research Institute of Instrument Design (Russia)
- 386. Tulatochmash, JSC (Russia)
- 387. PJSC 'I.S. Brook' INEUM (Russia)
- 388. SPE 'Krasnoznamennets', JSC (Russia)
- 389. SPA Pribor named after S.S. Golembiovsky, SC (Russia)
- 390. SPA 'Impuls', JSC (Russia)
- 391. RusBITech (Russia)
- 392. ROTOR 43 (Russia)

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- 393. Rostov optical and mechanical plant, PJSC (Russia)
- 394. RATEP, JSC (Russia)
- 395. PLAZ (Russia)
- 396. OKB 'Technika' (Russia)
- 397. Ocean Chips (Russia)
- 398. Nudelman Precision Engineering Design Bureau (Russia)
- 399. Angstrom JSC (Russia)
- 400. NPCAP (Russia)
- 401. Novosibirsk Plant of Artificial Fibre (Russia)
- 402. Novosibirsk Cartridge Plant, JSC (SIBFIRE) (Russia)
- 403. Novator DB (Russia)
- 404. NIMI named after V.V. BAHIREV, JSC (Russia)
- 405. NII Stali JSC (Russia)
- 406. Nevskoe Design Bureau, JSC (Russia)
- 407. Neva Electronica JSC (Russia)
- 408. ENICS (Russia)
- 409. The JSC Makeyev Design Bureau (Russia)
- 410. KURGANPRIBOR, JSC (Russia)
- 411. Ural Optical-Mechanical Plant E.S. Yalamova, JSC (Russia)
- 412. Ramenskoye Engineering Design Office, JSC (Russia)
- 413. Vologda Optical and Mechanical Plant, JSC (Russia)
- 414. Videoglaz Project (Russia)
- 415. Innovative Underwater Technologies, LLC (Russia)
- 416. Ulyanovsk Mechanical Plant (Russia)
- 417. All-Russian Research Institute of Radio Engineering (Russia)
- 418. PJSC 'Scientific and Production Association "Almaz" named after Academician A.A. Raspletin' (Russia)
- 419. Concern OJSC – KIZLYAR ELECTRO-MECHANICAL PLANT (Russia)
- 420. Concern Oceanpribor, JSC (Russia)
- 421. JSC Zelenogradsky Nanotechnology Center (Russia)
- 422. JSC Elektronstandart Pribor (Russia)
- 423. JSC 'Urals Optical-Mechanical Plant named after Mr E.S Yalamov' (Russia)

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- 424. Ramenskoye Instrument-Making Design Bureau, JSC (Russia)
- 425. Special Technology Centre Limited Liability Company (Russia)
- 426. Vest Ost Limited Liability (Russia)
- 427. Trade-Component LLC (Russia)
- 428. Radiant Electronic Components JSC (Russia)
- 429. JSC ICC Milandr (Russia)
- 430. SMT iLogic LLC (Russia)
- 431. Device Consulting (Russia)
- 432. Concern Radio-Electronic Technologies (Russia)
- 433. Technodinamika, JSC (Russia)
- 434. OOO 'UNITEK' (Russia)
- 435. Closed Joint Stock Company TPK LINKOS (Russia)
- 436. Closed Joint Stock Company TPK LINKOS, SUBDIVISION IN ASTRAKHAN (Russia)
- 437. Design and Manufacturing of Aircraft Engines (DAMA) (Iran)
- 438. Islamic Revolutionary Guard Corps Aerospace Force (Iran)
- 439. Islamic Revolutionary Guard Corps Research and Self-Sufficiency Jihad Organization (IRGC SSJO) (Iran)
- 440. Oje Parvaz Mado Nafar Company (Mado) (Iran)
- 441. Paravar Pars Company (Iran)
- 442. Qods Aviation Industries (Iran)
- 443. Shahed Aviation Industries (Iran)
- 444. Concern Morinformsystem–Agat (Russia)
- 445. AO Papon (Russia)
- 446. IT-Papillon OOO (Russia)
- 447. OOO Adis (Russia)
- 448. Papon Systems Limited Liability Company (Russia)
- 449. Advanced Research Foundation (Russia)
- 450. Federal Service for Military-Technical Cooperation (Russia)
- 451. Federal State Budgetary Scientific Institution Research and Production Complex Technology Center (Russia)
- 452. Federal State Institution Federal Scientific Center Scientific Research Institute for System Analysis of the Russian Academy of Sciences (Russia)

▼ M25

- 453. Joint Stock Company All-Russian Research Institute Signal (Russia)
- 454. Joint Stock Company Center of Research and Technology Services Dinamika (Russia)
- 455. Joint Stock Company Concern Avtomatika (Russia)
- 456. Joint Stock Company Corporation Moscow Institute of Heat Technology (Russia)
- 457. Joint Stock Company Design Center Soyuz (Russia)
- 458. Joint Stock Company Design Technology Center Elektronika (Russia)
- 459. Joint Stock Company Institute for Scientific Research Microelectronic Equipment Progress (Russia)
- 460. Joint Stock Company Machine-Building Engineering Office Fakel Named After Akademika P.D. Grushina (Russia)
- 461. Joint Stock Company Moscow Institute of Electromechanics and Automatics (Russia)
- 462. Joint Stock Company North Western Regional Center of Almaz Antey Concern Obukhovsky Plant (Russia)
- 463. Joint Stock Company Obninsk Research and Production Enterprise Technology Named After A.G. Romashin (Russia)
- 464. Joint Stock Company Penza Electrotechnical Research Institute (Russia)
- 465. Joint Stock Company Production Association Sever (Russia)
- 466. Joint Stock Company Research Center ELINS (Russia)
- 467. Joint Stock Company Research and Production Association of Measuring Equipment (Russia)
- 468. Joint Stock Company Research and Production Enterprise Radar MMS (Russia)
- 469. Joint Stock Company Research and Production Enterprise Sapfir (Russia)
- 470. Joint Stock Company RT-Tekhpriemka (Russia)
- 471. Joint Stock Company Russian Research Institute Electronstandart (Russia)
- 472. Joint Stock Company Ryazan Plant of Metal Ceramic Instruments (Russia)
- 473. Joint Stock Company Scientific Production Enterprise Digital Solutions (Russia)
- 474. Joint Stock Company Scientific Production Enterprise Kontakt (Russia)
- 475. Joint Stock Company Scientific Production Enterprise Topaz (Russia)
- 476. Joint Stock Company Scientific Research Institute Giricond (Russia)
- 477. Joint Stock Company Scientific Research Institute of Computer Engineering NII SVT (Russia)
- 478. Joint Stock Company Scientific Research Institute of Electrical Carbon Products (Russia)

▼ M25

- 479. Joint Stock Company Scientific Research Institute of Electronic and Mechanical Devices (Russia)
- 480. Joint Stock Company Scientific Research Institute of Electronic Engineering Materials (Russia)
- 481. Joint Stock Company Scientific Research Institute of Gas Discharge Devices Plasma (Russia)
- 482. Joint Stock Company Scientific Research Institute of Industrial Television Rastr (Russia)
- 483. Joint Stock Company Scientific Research Institute of Precision Mechanical Engineering (Russia)
- 484. Joint Stock Company Special Design Bureau of Computer Engineering (Russia)
- 485. Joint Stock Company Special Design Bureau of Control Means (Russia)
- 486. Joint Stock Company Special Design Bureau Turbina (Russia)
- 487. Joint Stock Company State Scientific Research Institute Kristall (Russia)
- 488. Joint Stock Company Svetlana Semiconductors (Russia)
- 489. Joint Stock Company Tekhnodinamika (Russia)
- 490. Joint Stock Company Voronezh Semiconductor Devices Factory Assembly (Russia)
- 491. KAMAZ Publicly Traded Company (Russia)
- 492. Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences (Russia)
- 493. Limited Liability Company Research and Production Association Radiovolna (Russia)
- 494. Limited Liability Company RSBGroup (Russia)
- 495. Mitishinskiy Scientific Research Institute of Radio Measuring Instruments (Russia)
- 496. Open Joint Stock Company Khabarovsk Radio Engineering Plant (Russia)
- 497. Open Joint Stock Company Mariyskiy Machine-Building Plant (Russia)
- 498. Open Joint Stock Company Scientific and Production Enterprise Pulsar (Russia)
- 499. Public Joint Stock Company Megafon (Russia)
- 500. Public Joint Stock Company Tutaev Motor Plant (Russia)
- 501. Public Joint Stock Company Vypel Interstate Corporation (Russia)
- 502. RT-Inform Limited Liability Company (Russia)
- 503. Skolkovo Foundation (Russia)
- 504. Skolkovo Institute of Science and Technology (Russia)
- 505. State Flight Testing Center Named After V.P. Chkalov (Russia)

▼ M25

- 506. Joint Stock Company Research and Production Association Named After S.A. Lavochkina (Russia)
- 507. VMK Limited Liability Company (Russia)
- 508. TESTKOMPLEKT LLC (Russia)
- 509. Radiopriborsnab LLC (Russia)
- 510. CJSC Radiotekhhkomplekt (Russia)
- 511. Asia Pacific Links Ltd. (Hong Kong, China)
- 512. Tordan Industry Limited (Hong Kong, China)
- 513. Alpha Trading Investments Limited (Hong Kong, China)
- 514. JSC NICEVT (Russia)
- 515. A-CONTRAKT (Russia)
- 516. JCS Izhevsk Motozavod Axion-holding (Russia)
- 517. Gorky Plant of Communication Equipment (GZAS) (Russia)
- 518. Nizhny Novgorod Research Institute of Radio Engineering (NNIIRT) (Russia)
- 519. Nizhegorodskiy televizionnyy zavod (NITEL JSC) (Russia)
- 520. LLC Rezonit (Russia)
- 521. ZAO Promelektronika (Russia)
- 522. TD Promelektronika LLC (Russia)
- 523. Tako LLC (Armenia)
- 524. Art Logistics LLC (Russia)
- 525. GFK Logistics LLC (Russia)
- 526. Novastream Limited (Russia)
- 527. SKS Elektron Broker (Russia)
- 528. Trust Logistics (Russia)
- 529. Trust Logistics LLC (Russia)
- 530. Alfa Beta Creative LLC (Uzbekistan)
- 531. GFK Logistics Asia LLC (Uzbekistan)
- 532. I Jet Global DMCC (Syria)
- 533. I Jet Global DMCC (United Arab Emirates)
- 534. Success Aviation Services FZC (United Arab Emirates)
- 535. LLC CST (Zala Aero Group) (Russia)

▼ M25

- 536. Iran Aircraft Manufacturing Industries Corporation (HESA) (Iran)
- 537. Closed Joint Stock Company Special Design Bureau (Russia)
- 538. Federal State Enterprise Kazan State Gunpowder Plant (Russia)
- 539. Federal State Unitary Enterprise Central Scientific Research Institute of Chemistry and Mechanics (Russia)
- 540. Federal State Unitary Enterprise Rostov-On-Don Research Institute of Radio Communications (Russia)
- 541. Informtest Firm Limited Liability Company (Russia)
- 542. Joint Stock Company 150 Aircraft Repair Plant (Russia)
- 543. Joint Stock Company 810 Aircraft Repair Plant (Russia)
- 544. Joint Stock Company Arzamas Instrument-Making Plant named after P.I. Plandin (Russia)
- 545. Joint Stock Company Concern Central Institute for Scientific Research Elektropribor (Russia)
- 546. Joint Stock Company Dux (Russia)
- 547. Joint Stock Company Eastern Shipyard (Russia)
- 548. Joint Stock Company Information Satellite Systems Named After Academician M.F. Reshetnev (Russia)
- 549. Joint Stock Company Izhevsk Electromechanical Plant Kupol (Russia)
- 550. Joint Stock Company Kazan Optical-Mechanical Plant (Russia)
- 551. Joint Stock Company Khabarovsk Shipbuilding Yard (Russia)
- 552. Joint Stock Company Machine Building Company Vityaz (Russia)
- 553. Joint Stock Company Management Company Radiostandard (Russia)
- 554. Joint Stock Company Marine Instrument Engineering Corporation (Russia)
- 555. Joint Stock Company NII Gidrosvyazi Shtil (Russia)
- 556. Joint Stock Company Nizhny Novgorod Plant of the 70th Anniversary of Victory (Russia)
- 557. Joint Stock Company Northern Production Association Arktika (Russia)
- 558. Joint Stock Company Perm Machine Building Plant (Russia)
- 559. Joint Stock Company Production Complex Akhtuba (Russia)
- 560. Joint Stock Company Project Design Bureau RIO (Russia)
- 561. Joint Stock Company Scientific Production Association Orion (Russia)
- 562. Joint Stock Company Scientific Production Association Volna Plant (Russia)
- 563. Joint Stock Company Scientific Production Center of Automatics and Instrument Building Named After Academician N.A. Pilyugin (Russia)
- 564. Joint Stock Company Scientific Production Concern Tekhmash (Russia)

▼ M25

- 565. Joint Stock Company Scientific Research Engineering Institute (Russia)
- 566. Joint Stock Company Scientific Research Institute of Computing Complexes Named After M.A. Kartsev (Russia)
- 567. Joint Stock Company Scientific Technical Institute Radiosvyaz (Russia)
- 568. Joint Stock Company Taganrog Plant Priboy (Russia)
- 569. Joint Stock Company Tula Cartridge Works (Russia)
- 570. Joint Stock Company Tula Machine-Building Plant (Russia)
- 571. Joint Stock Company Ulan-Ude Aviation Plant (Russia)
- 572. Joint Stock Company Ulyanovsk Cartridge Works (Russia)
- 573. Joint Stock Company Ural Automotive Plant (Russia)
- 574. Joint Stock Company Vodtranspribor (Russia)
- 575. Joint Stock Company Zavolzhskiy Plant of Caterpillar Tractors (Russia)
- 576. Joint Stock Company Zelenodolsk Plant Named After A.M. Gorky (Russia)
- 577. Machine Building Group Limited Liability Company (Russia)
- 578. Military Industrial Company Limited Liability Company (Russia)
- 579. Open Joint Stock Company Degtyaryov Plant (Russia)
- 580. Promtekhnologiya Limited Liability Company (Russia)
- 581. Public Joint Stock Company Kurganmashzavod (Russia)
- 582. Public Joint Stock Company Motovilikha Plants (Russia)
- 583. Public Joint Stock Company Proletarsky Plant (Russia)
- 584. Public Joint Stock Company Rostvertol (Russia)
- 585. Scientific Production Association Izhevsk Unmanned Systems Limited Liability Company (Russia)
- 586. Scientific Production Enterprise Prima Limited Liability Company (Russia)
- 587. United Machine Building Group Limited Liability Company (Russia)
- 588. Volgograd Machine Building Company Limited Liability Company (Russia)
- 589. VXI-Systems Limited Liability Company (Russia)
- 590. LLC Yadro (Russia)
- 591. Perm Powder Plant (Russia)
- 592. RPA Kazan Machine Building Plant (Russia)
- 593. Proton JSC (Russia)

▼ **M7**

ANNEX V

List of legal persons, entities and bodies referred to in Article 5(3)(a)

▼ **M1**

OPK OBORONPROM

UNITED AIRCRAFT CORPORATION

URALVAGONZAVOD

▼ **M7**

ANNEX VI

List of legal persons, entities and bodies referred to in Article 5(3)(b)

▼ **M1**

ROSNEFT

TRANSNEFT

GAZPROM NEFT

▼ **M25***ANNEX VII***List of goods and technology referred to in Articles 2a(1) and 2b(1)**

Part A

General Notes, Acronyms and Abbreviations, and Definitions in Annex I to Regulation (EU) 2021/821 apply to this Annex, with the exception of 'Part I – General Notes, Acronyms and Abbreviations, and Definitions, General Notes to Annex I, point 2'.

Definitions of Terms used in the Common Military List (CML) of the European Union (2020/C 85/01) apply to this Annex.

Without prejudice to Article 12 of this Regulation, non-controlled items containing one or more components listed in this Annex are not subject to the controls under Articles 2a and 2b of this Regulation.

Category I – Electronics

X.A.I.001 Electronic devices and components.

a. 'Microprocessor microcircuits', 'microcomputer microcircuits', and microcontroller microcircuits having any of the following:

1. A performance speed of 5 GigaFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more;
2. A clock frequency rate exceeding 25 MHz; or
3. More than one data or instruction bus or serial communication port that provides a direct external interconnection between parallel 'microprocessor microcircuits' with a transfer rate of 2,5 Mbyte/s;

b. Storage integrated circuits, as follows:

1. Electrically erasable programmable read-only memories (EEPROMs) with a storage capacity:
 - a. Exceeding 16 Mbits per package for flash memory types; or
 - b. Exceeding either of the following limits for all other EEPROM types:
 1. Exceeding 1 Mbit per package; or
 2. Exceeding 256 kbit per package and a maximum access time of less than 80 ns;
2. Static random access memories (SRAMs) with a storage capacity:
 - a. Exceeding 1 Mbit per package; or
 - b. Exceeding 256 kbit per package and a maximum access time of less than 25 ns;

c. Analogue-to-digital converters having any of the following:

1. A resolution of 8 bit or more, but less than 12 bit, with an output rate greater than 200 Mega Samples Per Second (MSPS);

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2. A resolution of 12 bit with an output rate greater than 105 Mega Samples per Second (MSPS);
3. A resolution of more than 12 bit but equal to or less than 14 bit with an output rate greater than 10 Mega Samples per Second (MSPS); or
4. A resolution of more than 14 bit with an output rate greater than 2,5 Mega Samples Per Second (MSPS);
- d. Field programmable logic devices having a maximum number of single-ended digital input/outputs between 200 and 700;
- e. Fast Fourier Transform (FFT) processors having a rated execution time for a 1 024 point complex FFT of less than 1 ms;
- f. Custom integrated circuits for which the function is unknown, or the control status of the equipment in which the integrated circuits will be used is unknown to the manufacturer, having any of the following:
 1. More than 144 terminals; or
 2. A typical basic propagation delay time of less than 0,4 ns;
- g. Traveling-wave ‘vacuum electronic devices’, pulsed or continuous wave, as follows:
 1. Coupled cavity devices, or derivatives thereof;
 2. Devices based on helix, folded waveguide, or serpentine waveguide circuits, or derivatives thereof, having any of the following:
 - a. An ‘instantaneous bandwidth’ of half an octave or more and average power (expressed in kW) times frequency (expressed in GHz) of more than 0,2; or
 - b. An ‘instantaneous bandwidth’ of less than half an octave; and average power (expressed in kW) times frequency (expressed in GHz) of more than 0,4;
- h. Flexible waveguides designed for use at frequencies exceeding 40 GHz;
- i. Surface acoustic wave and surface skimming (shallow bulk) acoustic wave devices, having either of the following:
 1. A carrier frequency exceeding 1 GHz; or
 2. A carrier frequency of 1 GHz or less; and
 - a. A ‘frequency side-lobe rejection’ exceeding 55 dB;
 - b. A product of the maximum delay time and bandwidth (time in μ s and bandwidth in MHz) of more than 100; or
 - c. A dispersive delay of more than 10 μ s;

Technical Note: For the purpose of X.A.1.001.i ‘Frequency side-lobe rejection’ is the maximum rejection value specified in data sheet.

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j. 'Cells' as follows:

1. 'Primary cells' having an 'energy density' of 550 Wh/kg or less at 293 K (20 °C);
2. 'Secondary cells' having an 'energy density' of 350 Wh/kg or less at 293 K (20 °C);

Note: X.A.I.001.j does not control batteries, including single cell batteries.

Technical Notes:

1. For the purpose of X.A.I.001.j energy density (Wh/kg) is calculated from the nominal voltage multiplied by the nominal capacity in ampere-hours (Ah) divided by the mass in kilograms. If the nominal capacity is not stated, energy density is calculated from the nominal voltage squared then multiplied by the discharge duration in hours divided by the discharge load in Ohms and the mass in kilograms.
 2. For the purpose of X.A.I.001.j, a 'cell' is defined as an electrochemical device, which has positive and negative electrodes, and electrolyte, and is a source of electrical energy. It is the basic building block of a battery.
 3. For the purpose of X.A.I.001.j.1, a 'primary cell' is a 'cell' that is not designed to be charged by any other source.
 4. For the purpose of X.A.I.001.j.2, a 'secondary cell' is a 'cell' that is designed to be charged by an external electrical source.
- k. 'Superconductive' electromagnets or solenoids specially designed to be fully charged or discharged in less than one minute, having all of the following:

Note: X.A.I.001.k does not control 'superconductive' electromagnets or solenoids designed for Magnetic Resonance Imaging (MRI) medical equipment.

1. Maximum energy delivered during the discharge divided by the duration of the discharge of more than 500 kJ per minute;
 2. Inner diameter of the current carrying windings of more than 250 mm; and
 3. Rated for a magnetic induction of more than 8T or 'overall current density' in the winding of more than 300 A/mm²;
- l. Circuits or systems for electromagnetic energy storage, containing components manufactured from 'superconductive' materials specially designed for operation at temperatures below the 'critical temperature' of at least one of their 'superconductive' constituents, having all of the following:
1. Resonant operating frequencies exceeding 1 MHz;
 2. A stored energy density of 1 MJ/m³ or more; and
 3. A discharge time of less than 1 ms;

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- m. Hydrogen/hydrogen-isotope thyratrons of ceramic-metal construction and rate for a peak current of 500 A or more;
- n. Ceramic frequency filters;
- o. Solar cells, cell-interconnect-coverglass (CIC) assemblies, solar panels, and solar arrays, which are 'space qualified' and not controlled by 3A001.e.4 ⁽¹⁾;
- p. Cermet trimmers.

X.A.I.002 General purpose 'electronic assemblies', modules and equipment.

- a. Electronic test equipment, other than those specified in the CML or in Regulation (EU) 2021/821;
- b. Digital instrumentation magnetic tape data recorders having any of the following characteristics:
 - 1. A maximum digital interface transfer rate exceeding 60 Mbit/s and employing helical scan techniques;
 - 2. A maximum digital interface transfer rate exceeding 120 Mbit/s and employing fixed head techniques; or
 - 3. 'Space qualified';
- c. Equipment, with a maximum digital interface transfer rate exceeding 60 Mbit/s, designed to convert digital video magnetic tape recorders for use as digital instrumentation data recorders;
- d. Non-modular analogue oscilloscopes having a bandwidth of 1 GHz or greater;
- e. Modular analogue oscilloscope systems having either of the following characteristics:
 - 1. A mainframe with a bandwidth of 1 GHz or greater; or
 - 2. Plug-in modules with an individual bandwidth of 4 GHz or greater;
- f. Analogue sampling oscilloscopes for the analysis of recurring phenomena with an effective bandwidth greater than 4 GHz;
- g. Digital oscilloscopes and transient recorders, using analogue-to-digital conversion techniques, capable of storing transients by sequentially sampling single-shot inputs at successive intervals of less than 1 ns (greater than 1 Giga Samples per Second (GSPS)), digitizing to 8 bits or greater resolution and storing 256 or more samples.

Note: X.A.I.002 controls the following specially designed components for analogue oscilloscopes:

- 1. *Plug-in units;*
- 2. *External amplifiers;*
- 3. *Pre-amplifiers;*
- 4. *Sampling devices;*
- 5. *Cathode ray tubes.*

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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X.A.I.003 Specific processing equipment, other than those specified in the CML or in Regulation (EU) 2021/821, as follows:

- a. Frequency changers and their specially designed components, other than those specified in the CML or in Regulation (EU) 2021/821;
- b. Mass spectrometers, other than those specified in the CML or in Regulation (EU) 2021/821;
- c. All flash X-ray machines, or components of pulsed power systems designed thereof, including Marx generators, high power pulse shaping networks, high voltage capacitors, and triggers;
- d. Pulse amplifiers, other than those specified in the CML or in Regulation (EU) 2021/821;
- e. Electronic equipment for time delay generation or time interval measurement, as follows:
 1. Digital time delay generators with a resolution of 50 ns or less over time intervals of 1 µs or greater; or
 2. Multi-channel (three or more) or modular time interval meter and chronometry equipment with resolution of 50 ns or less over time intervals of 1 µs or greater;
- f. Chromatography and spectrometry analytical instruments.

X.B.I.001 Equipment for the manufacture of electronic components or materials, as follows and specially designed components and accessories therefor:

- a. Equipment specially designed for the manufacture of electron tubes, optical elements and specially designed components therefor controlled by 3A001 ⁽¹⁾ or X.A.I.001;
- b. Equipment specially designed for the manufacture of semiconductor devices, integrated circuits and 'electronic assemblies', as follows, and systems incorporating or having the characteristics of such equipment:

Note: X.B.I.001.b. also controls equipment used or modified for use in the manufacture of other devices, such as imaging devices, electro-optical devices, acoustic-wave devices.

1. Equipment for the processing of materials for the manufacture of devices and components as specified in the heading of X.B.I.001.b, as follows:

Note: X.B.I.001 does not control quartz furnace tubes, furnace liners, paddles, boats (except specially designed caged boats), bubblers, cassettes or crucibles specially designed for the processing equipment controlled by X.B.I.001.b.1.

- a. Equipment for producing polycrystalline silicon and materials controlled by 3C001 ⁽¹⁾;
- b. Equipment specially designed for purifying or processing III/V and II/VI semiconductor materials controlled by 3C001, 3C002, 3C003, 3C004, or 3C005 ⁽¹⁾ except crystal pullers, for which see X.B.I.001.b.1.c below;

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- c. Crystal pullers and furnaces, as follows:

Note: X.B.1.001.b.1.c does not control diffusion and oxidation furnaces.

1. Annealing or recrystallizing equipment other than constant temperature furnaces employing high rates of energy transfer capable of processing wafers at a rate exceeding 0,005 m² per minute;
2. 'Stored program controlled' crystal pullers having any of the following characteristics:
 - a. Rechargeable without replacing the crucible container;
 - b. Capable of operation at pressures above $2,5 \times 10^5$ Pa; or
 - c. Capable of pulling crystals of a diameter exceeding 100 mm;
- d. 'Stored program controlled' equipment for epitaxial growth having any of the following characteristics:
 1. Capable of producing silicon layer with a thickness uniform to less than $\pm 2,5$ % across a distance of 200 mm or more;
 2. Capable of producing a layer of any material other than silicon with a thickness uniformity across the wafer of equal to or better than $\pm 3,5$ %; or
 3. Rotation of individual wafers during processing;
- e. Molecular beam epitaxial growth equipment;
- f. Magnetically enhanced 'sputtering' equipment with specially designed integral load locks capable of transferring wafers in an isolated vacuum environment;
- g. Equipment specially designed for ion implantation, ion-enhanced or photo-enhanced diffusion, having any of the following characteristics:
 1. Patterning capability;
 2. Beam energy (accelerating voltage) exceeding 200 keV;
 3. Optimised to operate at a beam energy (accelerating voltage) of less than 10 keV; or
 4. Capable of high energy oxygen implant into a heated 'substrate';
- h. 'Stored program controlled' equipment for the selective removal (etching) by means of anisotropic dry methods (e.g., plasma), as follows:
 1. 'Batch types' having either of the following:
 - a. End-point detection, other than optical emission spectroscopy types; or

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- b. Reactor operational (etching) pressure of 26,66 Pa or less;
- 2. 'Single wafer types' having any of the following:
 - a. End-point detection, other than optical emission spectroscopy types;
 - b. Reactor operational (etching) pressure of 26,66 Pa or less; or
 - c. Cassette-to-cassette and load locks wafer handling;

Notes:

- 1. 'Batch types' refers to machines not specially designed for production processing of single wafers. Such machines can process two or more wafers simultaneously with common process parameters, e.g., RF power, temperature, etch gas species, flow rates.
- 2. 'Single wafer types' refers to machines specially designed for production processing of single wafers. These machines may use automatic wafer handling techniques to load a single wafer into the equipment for processing. The definition includes equipment that can load and process several wafers but where the etching parameters, e.g., RF power or end point, can be independently determined for each individual wafer.
- i. Chemical vapour deposition (CVD) equipment, e.g., plasma-enhanced CVD (PECVD) or photo-enhanced CVD, for semiconductor device manufacturing, having either of the following capabilities, for deposition of oxides, nitrides, metals or polysilicon:
 - 1. Chemical vapour deposition equipment operating below 10^5 Pa; or
 - 2. PECVD equipment operating either below 60 Pa or having automatic cassette-to-cassette and load lock wafer handling;

Note: X.B.I.001.b.1.i does not control low pressure chemical vapour deposition (LPCVD) systems or reactive 'sputtering' equipment.
- j. Electron beam systems specially designed or modified for mask making or semiconductor device processing having any of the following characteristics:
 - 1. Electrostatic beam deflection;
 - 2. Shaped, non-Gaussian beam profile;
 - 3. Digital-to-analogue conversion rate exceeding 3 MHz;
 - 4. Digital-to-analogue conversion accuracy exceeding 12 bit; or
 - 5. Target-to-beam position feedback control precision of 1 μm or finer;

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Note: X.B.I.001.b.1.j does not control electron beam deposition systems or general purpose scanning electron microscopes.

- k. Surface finishing equipment for the processing of semiconductor wafers as follows:
 - 1. Specially designed equipment for backside processing of wafers thinner than 100 µm and the subsequent separation thereof; or
 - 2. Specially designed equipment for achieving a surface roughness of the active surface of a processed wafer with a two-sigma value of 2 µm or less, total indicator reading (TIR);

Note: X.B.I.001.b.1.k does not control single-side lapping and polishing equipment for wafer surface finishing.

- l. Interconnection equipment which includes common single or multiple vacuum chambers specially designed to permit the integration of any equipment controlled by X.B.I.001 into a complete system;
- m. 'Stored program controlled' equipment using 'lasers' for the repair or trimming of 'monolithic integrated circuits' with either of the following characteristics:
 - 1. Positioning accuracy less than ± 1 µm; or
 - 2. Spot size (kerf width) less than 3 µm.

Technical Note: For the purpose of X.B.I.001.b.1, 'sputtering' is an overlay coating process wherein positively charged ions are accelerated by an electric field towards the surface of a target (coating material). The kinetic energy of the impacting ions is sufficient to cause target surface atoms to be released and deposited on the substrate. (Note: Triode, magnetron or radio frequency sputtering to increase adhesion of coating and rate of deposition are ordinary modifications of the process.).

- 2. Masks, mask substrates, mask-making equipment and image transfer equipment for the manufacture of devices and components as specified in the heading of X.B.I.001, as follows:

Note: The term masks refers to those used in electron beam lithography, X-ray lithography, and ultraviolet lithography, as well as the usual ultraviolet and visible photo-lithography.

- a. Finished masks, reticles and designs therefor, except:
 - 1. Finished masks or reticles for the production of integrated circuits not controlled by 3A001 ⁽¹⁾; or
 - 2. Masks or reticles, having both of the following characteristics:
 - a. Their design is based on geometries of 2,5 µm or more; and

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b. The design does not include special features to alter the intended use by means of production equipment or 'software';

b. Mask substrates as follows:

1. Hard surface (e.g., chromium, silicon, molybdenum) coated 'substrates' (e.g., glass, quartz, sapphire) for the preparation of masks having dimensions exceeding 125 mm x 125 mm; or

2. Substrates specially designed for X-ray masks;

c. Equipment, other than general purpose computers, specially designed for computer aided design (CAD) of semiconductor devices or integrated circuits;

d. Equipment or machines, as follows, for mask or reticle fabrication:

1. Photo-optical step and repeat cameras capable of producing arrays larger than 100 mm x 100 mm, or capable of producing a single exposure larger than 6 mm x 6 mm in the image (i.e., focal) plane, or capable of producing line widths of less than 2,5 µm in the photoresist on the 'substrate';

2. Mask or reticle fabrication equipment using ion or 'laser' beam lithography capable of producing line widths of less than 2,5 µm; or

3. Equipment or holders for altering masks or reticles or adding pellicles to remove defects;

Note: X.B.I.001.b.2.d.1 and b.2.d.2 do not control mask fabrication equipment using photo-optical methods which was either commercially available before the 1st January 1980, or has a performance no better than such equipment.

e. 'Stored program controlled' equipment for the inspection of masks, reticles or pellicles with:

1. A resolution of 0,25 µm or finer; and

2. A precision of 0,75 µm or finer over a distance in one or two coordinates of 63,5 mm or more;

Note: X.B.I.001.b.2.e does not control general purpose scanning electron microscopes except when specially designed and instrumented for automatic pattern inspection.

f. Align and expose equipment for wafer production using photo-optical or X-ray methods, e.g., lithography equipment, including both projection image transfer equipment and step and repeat (direct step on wafer) or step and scan (scanner) equipment, capable of performing any of the following functions:

Note: X.B.I.001.b.2.f does not control photo-optical contact and proximity mask align and expose equipment or contact image transfer equipment.

1. Production of a pattern size of less than 2,5 µm;

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2. Alignment with a precision finer than $\pm 0,25 \mu\text{m}$ (3 sigma);
 3. Machine-to-machine overlay no better than $\pm 0,3 \mu\text{m}$; or
 4. A light source wavelength shorter than 400 nm;
 - g. Electron beam, ion beam or X-ray equipment for projection image transfer capable of producing patterns less than $2,5 \mu\text{m}$;
- Note: For focused, deflected-beam systems (direct write systems), see X.B.I.001.b.1.j.*
- h. Equipment using ‘lasers’ for direct write on wafers capable of producing patterns less than $2,5 \mu\text{m}$.
3. Equipment for the assembly of integrated circuits, as follows:
 - a. ‘Stored program controlled’ die bonders having all of the following characteristics:
 1. Specially designed for ‘hybrid integrated circuits’;
 2. X-Y stage positioning travel exceeding $37,5 \times 37,5 \text{ mm}$; and
 3. Placement accuracy in the X-Y plane of finer than $\pm 10 \mu\text{m}$;
 - b. ‘Stored program controlled’ equipment for producing multiple bonds in a single operation (e.g., beam lead bonders, chip carrier bonders, tape bonders);
 - c. Semi-automatic or automatic hot cap sealers, in which the cap is heated locally to a higher temperature than the body of the package, specially designed for ceramic microcircuit packages controlled by 3A001 ⁽¹⁾ and that have a throughput equal to or more than one package per minute.
- Note: X.B.I.001.b.3 does not control general purpose resistance type spot welders.*
4. Filters for clean rooms capable of providing an air environment of 10 or less particles of $0,3 \mu\text{m}$ or smaller per $0,02832 \text{ m}^3$ and filter materials therefor.

Technical Note: For the purpose of X.B.I.001, ‘stored program controlled’ is a control using instructions stored in an electronic storage that a processor can execute in order to direct the performance of predetermined functions. Equipment may be ‘stored program controlled’ whether the electronic storage is internal or external to the equipment.

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X.B.I.002 Equipment for the inspection or testing of electronic components and materials, and specially designed components and accessories therefor.

- a. Equipment specially designed for the inspection or testing of electron tubes, optical elements and specially designed components therefor controlled by 3A001 ⁽¹⁾ or X.A.I.001;
- b. Equipment specially designed for the inspection or testing of semiconductor devices, integrated circuits and 'electronic assemblies', as follows, and systems incorporating or having the characteristics of such equipment:

Note: X.B.I.002.b also controls equipment used or modified for use in the inspection or testing of other devices, such as imaging devices, electro-optical devices, acoustic-wave devices.

1. 'Stored program controlled' inspection equipment for the automatic detection of defects, errors or contaminants of 0,6 µm or less in or on processed wafers, substrates, other than printed circuit boards or chips, using optical image acquisition techniques for pattern comparison;

Note: X.B.I.002.b.1 does not control general purpose scanning electron microscopes, except when specially designed and instrumented for automatic pattern inspection.

2. Specially designed 'stored program controlled' measuring and analysis equipment, as follows:
 - a. Specially designed for the measurement of oxygen or carbon content in semiconductor materials;
 - b. Equipment for line width measurement with a resolution of 1 µm or finer;
 - c. Specially designed flatness measurement instruments capable of measuring deviations from flatness of 10 µm or less with a resolution of 1 µm or finer.
3. 'Stored program controlled' wafer probing equipment having any of the following characteristics:
 - a. Positioning accuracy finer than 3,5 µm;
 - b. Capable of testing devices having more than 68 terminals; or
 - c. Capable of testing at a frequency exceeding 1 GHz;

4. Test equipment as follows:

- a. 'Stored program controlled' equipment specially designed for testing discrete semiconductor devices and unencapsulated dice, capable of testing at frequencies exceeding 18 GHz;

Technical Note: Discrete semiconductor devices include photocells and solar cells.

- b. 'Stored program controlled' equipment specially designed for testing integrated circuits and 'electronic assemblies' thereof, capable of functional testing;

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1. At a 'pattern rate' exceeding 20 MHz; or
2. At a 'pattern rate' exceeding 10 MHz but not exceeding 20 MHz and capable of testing packages of more than 68 terminals.

Notes: X.B.I.002.b.4.b does not control test equipment specially designed for testing:

1. Memories;
2. Assemblies or a class of 'electronic assemblies' for home and entertainment applications; and
3. Electronic components, 'electronic assemblies' and integrated circuits not controlled by 3A001⁽¹⁾ or X.A.I.001 provided such test equipment does not incorporate computing facilities with 'user accessible programmability'.

Technical Note: For purposes of X.B.I.002.b.4.b, 'pattern rate' is defined as the maximum frequency of digital operation of a tester. It is therefore equivalent to the highest data rate that a tester can provide in non-multiplexed mode. It is also referred to as test speed, maximum digital frequency or maximum digital speed.

- c. Equipment specially designed for determining the performance of focal-plane arrays at wavelengths of more than 1 200 nm, using 'stored program controlled' measurements or computer aided evaluation and having any of the following characteristics:
 1. Using scanning light spot diameters of less than 0,12 mm;
 2. Designed for measuring photosensitive performance parameters and for evaluating frequency response, modulation transfer function, uniformity of responsivity or noise; or
 3. Designed for evaluating arrays capable of creating images with more than 32 x 32 line elements;
5. Electron beam test systems designed for operation at 3 keV or below, or 'laser' beam systems, for non-contactive probing of powered-up semiconductor devices having any of the following:
 - a. Stroboscopic capability with either beam blanking or detector strobing;
 - b. An electron spectrometer for voltage measurements with a resolution of less than 0,5 V; or
 - c. Electrical tests fixtures for performance analysis of integrated circuits;

Note: X.B.I.002.b.5 does not control scanning electron microscopes, except when specially designed and instrumented for non-contactive probing of a powered-up semiconductor device.

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6. ‘Stored program controlled’ multifunctional focused ion beam systems specially designed for manufacturing, repairing, physical layout analysis and testing of masks or semiconductor devices and having either of the following characteristics:
 - a. Target-to-beam position feedback control precision of 1 µm or finer; or
 - b. Digital-to-analogue conversion accuracy exceeding 12 bit;
7. Particle measuring systems employing ‘lasers’ designed for measuring particle size and concentration in air having both of the following characteristics:
 - a. Capable of measuring particle sizes of 0,2 µm or less at a flow rate of 0,02832 m³ per minute or more; and
 - b. Capable of characterizing Class 10 clean air or better.

Technical Note: For the purpose of X.B.I.002, ‘stored program controlled’ is a control using instructions stored in an electronic storage that a processor can execute in order to direct the performance of predetermined functions. Equipment may be ‘stored program controlled’ whether the electronic storage is internal or external to the equipment.

X.B.I.003 Equipment for the manufacture of Printed Circuit Boards (PCBs) and specially designed components and accessories therefor, as follows:

- a. Film processing equipment;
- b. Solder mask coating equipment;
- c. Photo plotter equipment;
- d. Plating or electroplating deposition equipment;
- e. Vacuum chambers and presses;
- f. Roll laminators;
- g. Alignment equipment; or
- h. Etching equipment.

X.B.I.004 Automated optical inspection equipment for testing Printed Circuit Boards (PCBs), based on optical or electrical sensors, and capable to detect any of the following quality defects:

- a. Spacing, area, volume or height;
- b. Bill boarding;
- c. Components (presence, absence, flipped, offset, polarity, or skew);
- d. Solder (bridging, insufficient solder joints);
- e. Leads (insufficient paste, lifting);
- f. Tombstoning; or
- g. Electrical (shorts, opens, resistance, capacitance, power, grid performance).

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- X.C.I.001 Positive resists designed for semiconductor lithography specially adjusted (optimised) for use at wavelengths between 370 and 193 nm.
- X.C.I.002 Chemicals and materials of the type used in the production of Printed Circuit Boards (PCBs), as follows:
- a. PCB composite substrates made of glass fibre or cotton (e.g. FR-4, FR-2, FR-6, CEM-1, G-10, etc.);
 - b. Multilayer PCB substrates, containing at least one layer of any of the following materials:
 1. Aluminium;
 2. Polytetrafluoroethylene (PTFE); or
 3. Ceramic materials (e.g. alumina, titanium oxide, etc.);
 - c. Etchant chemicals;
 1. Ferric chloride (7705-08-0);
 2. Cupric chloride (7447-39-4);
 3. Ammonium persulphate (7727-54-0);
 4. Sodium persulphate (7775-27-1); or
 5. Chemical preparations specially designed for etching and containing any of the chemicals included in X.C.I.002.c.1 to X.C.I.002.c.4.

Note: X.C.I.002.c does not control 'chemical mixtures' containing one or more of the chemicals specified in entry X.C.I.002.c in which no individually specified chemical constitutes more than 10 % by the weight of the mixture.
 - d. Copper foil with a minimum purity 95 % and of a thickness less than 100 µm;
 - e. Polymeric substances and films thereof of less than 0,5 mm of thickness, as follows:
 1. Aromatic polyimides;
 2. Parylenes;
 3. Benzocyclobutenes (BCBs); or
 4. Polybenzoxazoles.
- X.D.I.001 'Software' specially designed for the 'development', 'production', or 'use' of electronic devices or components controlled by X.A.I.001, general purpose electronic equipment controlled by X.A.I.002, or manufacturing and test equipment controlled by X.B.I.001 and X.B.I.002; or 'software' specially designed for the 'use' of equipment controlled by 3B001.g and 3B001.h ⁽¹⁾.
- X.D.I.002 'Software' specially designed for the test, 'development' or 'production' of Printed Circuit Boards (PCBs).

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X.E.I.001 'Technology' for the 'development', 'production' or 'use' of electronic devices or components controlled by X.A.I.001, general purpose electronic equipment controlled by X.A.I.002, or manufacturing and test equipment controlled by X.B.I.001 or X.B.I.002, or materials controlled by X.C.I.001.

X.E.I.002 'Technology' for the 'development', 'production' or 'use' of Printed Circuit Boards (PCBs).

Category II – Computers

Note: Category II does not control goods for the personal use of the natural persons.

X.A.II.001 Computers, 'electronic assemblies' and related equipment, not controlled by 4A001 or 4A003 ⁽¹⁾, and specially designed components therefor.

Note: The control status of the 'digital computers' and related equipment described in X.A.II.001 is determined by the control status of other equipment or systems provided:

a. The 'digital computers' or related equipment are essential for the operation of the other equipment or systems;

b. The 'digital computers' or related equipment are not a 'principal element' of the other equipment or systems; and

N.B.1: The control status of 'signal processing' or 'image enhancement' equipment specially designed for other equipment with functions limited to those required for the other equipment is determined by the control status of the other equipment even if it exceeds the 'principal element' criterion.

N.B.2: For the control status of 'digital computers' or related equipment for telecommunications equipment, see Category 5, Part 1 (Telecommunications) ⁽¹⁾.

c. The 'technology' for the 'digital computers' and related equipment is determined by 4E ⁽¹⁾.

a. Electronic computers and related equipment, and 'electronic assemblies' and specially designed components therefor, rated for operation at an ambient temperature above 343 K (70 °C);

b. 'Digital computers', including equipment of 'signal processing' or 'image enhancement', having an 'Adjusted Peak Performance' ('APP') equal to or greater than 0,0128 Weighted TeraFLOPS (WT);

c. 'Electronic assemblies' that are specially designed or modified to enhance performance by aggregation of processors, as follows:

1. Designed to be capable of aggregation in configurations of 16 or more processors;

2. Not used;

Note 1: X.A.II.001.c applies only to 'electronic assemblies' and programmable interconnections with a 'APP' not exceeding the limits in X.A.II.001.b, when shipped as unintegrated 'electronic assemblies'. It does not apply to 'electronic assemblies' inherently limited by nature of their design for use as related equipment controlled by X.A.II.001.k.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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Note 2: X.A.II.001.c does not control any 'electronic assembly' specially designed for a product or family of products whose maximum configuration does not exceed the limits of X.A.II.001.b.

- d. Not used;
- e. Not used;
- f. Equipment for 'signal processing' or 'image enhancement' having an 'Adjusted Peak Performance' ('APP') equal to or greater than 0,0128 Weighted TeraFLOPS WT;
- g. Not used;
- h. Not used;
- i. Equipment containing 'terminal interface equipment' exceeding the limits in X.A.III.101;

Technical Note: For the purpose of X.A.II.001.i, 'terminal interface equipment' means equipment at which information enters or leaves the telecommunication system, e.g. telephone, data device, computer, etc.

- j. Equipment specially designed to provide external interconnection of 'digital computers' or associated equipment that allows communications at data rates exceeding 80 Mbyte/s.

Note: X.A.II.001.j does not control internal interconnection equipment (e.g., backplanes, buses) passive interconnection equipment, 'network access controllers' or 'communication channel controllers'.

Technical Note: For the purpose of X.A.II.001.j, 'communication channel controllers' is the physical interface which controls the flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.

- k. Hybrid computers and 'electronic assemblies' and specially designed components therefor containing analogue-to-digital converters having all of the following characteristics:

- 1. 32 channels or more; and
- 2. A resolution of 14 bit (plus sign bit) or more with a conversion rate of 200 000 Hz or more.

X.D.II.001 'Program' proof and validation 'software', 'software' allowing the automatic generation of 'source codes', and operating system 'software' that are specially designed for 'real-time processing' equipment."

- a. 'Program' proof and validation 'software' using mathematical and analytical techniques and designed or modified for 'programs' having more than 500 000 'source code' instructions;
- b. 'Software' allowing the automatic generation of 'source codes' from data acquired on line from external sensors described in the Regulation (EU) 2021/821; or

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- c. Operating system ‘software’ specially designed for ‘real-time processing’ equipment that guarantees a ‘global interrupt latency time’ of less than 20 µs.

Technical Note: For the purpose of X.D.II.001, ‘global interrupt latency time’ is the time taken by the computer system to recognise an interrupt due to the event, service the interrupt and perform a context switch to an alternate memory-resident task waiting on the interrupt.

X.D.II.002 ‘Software’ other than that controlled in 4D001 ⁽¹⁾ specially designed or modified for the ‘development’, ‘production’ or ‘use’ of equipment controlled by 4A101 ⁽¹⁾.

X.E.II.001 ‘Technology’ for the ‘development’, ‘production’ or ‘use’ of equipment controlled by X.A.II.001, or ‘software’ controlled by X.D.II.001 or X.D.II.002.

X.E.II.002 ‘Technology’ for the ‘development’ or ‘production’ of equipment designed for ‘multi-data-stream processing’.

Technical Note: For the purpose of X.E.II.002, ‘multi-data-stream processing’ is a microprogram or equipment architecture technique that permits simultaneous processing of two or more data sequences under the control of one or more instruction sequences by means such as:

1. *Single Instruction Multiple Data (SIMD) architectures such as vector or array processors;*
2. *Multiple Single Instruction Multiple Data (MSIMD) architectures;*
3. *Multiple Instruction Multiple Data (MIMD) architectures, including those that are tightly coupled, closely coupled or loosely coupled; or*
4. *Structured arrays of processing elements, including systolic arrays.*

Category III. Part 1 – Telecommunications

Note: Category III. Part 1 does not control goods for the personal use of the natural persons.

X.A.III.101 Telecommunication equipment.

- a. Any type of telecommunications equipment, not controlled by 5A001.a ⁽¹⁾, specially designed to operate outside the temperature range from 219 K (– 54 °C) to 397 K (124 °C).
- b. Telecommunication transmission equipment and systems, and specially designed components and accessories therefor, having any of the following characteristics, functions or features:

Note: Telecommunication transmission equipment:

a. *Categorised as follows, or combinations thereof:*

1. *Radio equipment (e.g., transmitters, receivers and transceivers);*
2. *Line terminating equipment;*

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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3. *Intermediate amplifier equipment;*
 4. *Repeater equipment;*
 5. *Regenerator equipment;*
 6. *Translation encoders (transcoders);*
 7. *Multiplex equipment (statistical multiplex included);*
 8. *Modulators/demodulators (modems);*
 9. *Transmultiplex equipment (see CCITT Rec. G701);*
 10. *'Stored program controlled' digital crossconnection equipment;*
 11. *'Gateways' and bridges;*
 12. *'Media access units'; and*
- b. *Designed for use in single or multi-channel communication via any of the following:*
1. *Wire (line);*
 2. *Coaxial cable;*
 3. *Optical fibre cable;*
 4. *Electromagnetic radiation; or*
 5. *Underwater acoustic wave propagation.*
1. *Employing digital techniques, including digital processing of analogue signals, and designed to operate at a 'digital transfer rate' at the highest multiplex level exceeding 45 Mbit/s or a 'total digital transfer rate' exceeding 90 Mbit/s;*

Note: X.A.III.101.b.1 does not control equipment specially designed to be integrated and operated in any satellite system for civil use.

2. *Modems using the 'bandwidth of one voice channel' with a 'data signalling rate' exceeding 9 600 bits per second;*
3. *Being 'stored program controlled' digital cross connect equipment with 'digital transfer rate' exceeding 8,5 Mbit/s per port;*
4. *Being equipment containing any of the following:*
 - a. *'Network access controllers' and their related common medium having a 'digital transfer rate' exceeding 33 Mbit/s; or*
 - b. *'Communication channel controllers' with a digital output having a 'data signalling rate' exceeding 64 000 bit/s per channel;*

Note: If any uncontrolled equipment contains a 'network access controller', it cannot have any type of telecommunications interface, except those described in, but not controlled by X.A.III.101.b.4.

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5. Employing a ‘laser’ and having any of the following characteristics:
 - a. A transmission wavelength exceeding 1 000 nm; or
 - b. Employing analogue techniques and having a bandwidth exceeding 45 MHz;
 - c. Employing coherent optical transmission or coherent optical detection techniques (also called optical heterodyne or homodyne techniques);
 - d. Employing wavelength division multiplexing techniques; or
 - e. Performing ‘optical amplification’;
6. Radio equipment operating at input or output frequencies exceeding:
 - a. 31 GHz for satellite-earth station applications; or
 - b. 26,5 GHz for other applications;

Note: X.A.III.101.b.6 does not control equipment for civil use when conforming with an International Telecommunications Union (ITU) allocated band between 26,5 GHz and 31 GHz.

7. Being radio equipment employing any of the following:
 - a. Quadrature-amplitude-modulation (QAM) techniques above level 4 if the ‘total digital transfer rate’ exceeds 8,5 Mbit/s;
 - b. QAM techniques above level 16 if the ‘total digital transfer rate’ is equal to or less than 8,5 Mbit/s;
 - c. Other digital modulation techniques and having a ‘spectral efficiency’ exceeding 3 bit/s/Hz; or
 - d. Operating in the 1,5 MHz to 87,5 MHz band and incorporating adaptive techniques providing more than 15 dB suppression of an interfering signal.

Notes:

1. *X.A.III.101.b.7 does not control equipment specially designed to be integrated and operated in any satellite system for civil use.*
2. *X.A.III.101.b.7 does not control radio relay equipment for operation in an International Telecommunications Union (ITU) allocated band:*
 - a. *Having any of the following:*
 1. Not exceeding 960 MHz; or
 2. With a ‘total digital transfer rate’ not exceeding 8,5 Mbit/s; and
 - b. *Having a ‘spectral efficiency’ not exceeding 4 bit/s/Hz.*

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- c. 'Stored program controlled' switching equipment and related signalling systems, having any of the following characteristics, functions or features, and specially designed components and accessories therefor:

Note: Statistical multiplexers with digital input and digital output which provide switching are treated as 'stored program controlled' switches.

1. 'Data (message) switching' equipment or systems designed for 'packet-mode operation', 'electronic assemblies' and components therefor, other than those specified in the CML or in Regulation (EU) 2021/821;

2. Not used;

3. Routing or switching of 'datagram' packets;

Note: X.A.III.101.c.3 does not control networks restricted to using only 'network access controllers' or to 'network access controllers' themselves.

4. Not used;

5. Multi-level priority and pre-emption for circuit switching;

Note: X.A.III.101.c.5 does not control single-level call preemption.

6. Designed for automatic hand-off of cellular radio calls to other cellular switches or automatic connection to a centralised subscriber data base common to more than one switch;

7. Containing 'stored program controlled' digital cross connect equipment with 'digital transfer rate' exceeding 8,5 Mbit/s per port;

8. 'Common channel signalling' operating in either non-associated or quasi-associated mode of operation;

9. 'Dynamic adaptive routing';

10. Being packet switches, circuit switches and routers with ports or lines exceeding any of the following:

- a. A 'data signalling rate' of 64 000 bit/s per channel for a 'communications channel controller'; or

Note: X.A.III.101.c.10.a does not control multiplex composite links composed only of communication channels not individually controlled by X.A.III.101.b.1.

- b. A 'digital transfer rate' of 33 Mbit/s for a 'network access controller' and related common media;

Note: X.A.III.101.c.10 does not control packet switches or routers with ports or lines not exceeding the limits in X.A.III.101.c.10.

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11. 'Optical switching';
 12. Employing 'Asynchronous Transfer Mode' ('ATM') techniques.
- d. Optical fibres and optical fibre cables of more than 50 m in length designed for single mode operation;
 - e. Centralised network control having all of the following characteristics:
 1. Receives data from the nodes; and
 2. Process these data in order to provide control of traffic not requiring operator decisions, and thereby performing 'dynamic adaptive routing';

Note 1: X.A.III.101.e does not include cases of routing decisions taken on predefined information.

Note 2: X.A.III.101.e does not preclude control of traffic as a function of predictable statistical traffic conditions.

- f. Phased array antennas, operating above 10,5 GHz, containing active elements and distributed components, and designed to permit electronic control of beam shaping and pointing, except for landing systems with instruments meeting International Civil Aviation Organization (ICAO) standards (microwave landing systems (MLS));
- g. Mobile communications equipment other than those specified in the CML or in Regulation (EU) 2021/821, 'electronic assemblies' and components therefor; or
- h. Radio relay communications equipment designed for use at frequencies equal to or exceeding 19,7 GHz and components therefor, other than those specified in the CML or in Regulation (EU) 2021/821.

Technical Note: For the purpose of X.A.III.101:

- 1) 'Asynchronous transfer mode' ('ATM') is a transfer mode in which the information is organised into cells; it is asynchronous in the sense that the recurrence of cells depends on the required or instantaneous bit rate.
- 2) 'Bandwidth of one voice channel' is data communication equipment designed to operate in one voice channel of 3 100 Hz, as defined in CCITT Recommendation G.151.
- 3) 'Communications channel controller' is the physical interface that controls the flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.
- 4) 'Datagram' is a self-contained, independent entity of data carrying sufficient information to be routed from the source to the destination data terminal equipment without reliance on earlier exchanges between this source and destination data terminal equipment and the transporting network.

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- 5) *'Fast select' is a facility applicable to virtual calls that allows data terminal equipment to expand the possibility to transmit data in call set-up and clearing 'packets' beyond the basic capabilities of a virtual call.*
- 6) *'Gateway' is the function, realised by any combination of equipment and 'software', to carry out the conversion of conventions for representing, processing or communicating information used on one system into the corresponding, but different conventions used in another system.*
- 7) *'Integrated Services Digital Network' (ISDN) is a unified end-to-end digital network, in which data originating from all types of communication (e.g., voice, text, data, still and moving pictures) are transmitted from one port (terminal) in the exchange (switch) over one access line to and from the subscriber.*
- 8) *'Packet' is a group of binary digits including data and call control signals that is switched as a composite whole. The data, call control signals, and possible error control information are arranged in a specified format.*
- 9) *'Common channel signalling' means the transmission of control information (signalling) via a separate channel than that used for the messages. The signalling channel usually controls multiple message channels.*
- 10) *'Data signalling rate' means the rate, as defined in ITU Recommendation 53-36, taking into account that, for non-binary modulation, baud and bit per second are not equal. Bits for coding, checking and synchronization functions are to be included.*
- 11) *'Dynamic adaptive routing' means Automatic rerouting of traffic based on sensing and analysis of current actual network conditions*
- 12) *'Media access unit' means equipment that contains one or more communication interfaces ('network access controller', 'communications channel controller', modem or computer bus) to connect terminal equipment to a network.*
- 13) *'Spectral efficiency' is the 'digital transfer rate' [bits/s] / 6 dB spectrum bandwidth in Hz.*
- 14) *'Stored program controlled' is a control using instructions stored in an electronic storage that a processor can execute in order to direct the performance of predetermined functions.*

Note: Equipment may be 'stored program controlled' whether the electronic storage is internal or external to the equipment.

X.B.III.101 Telecommunications test equipment, other than those specified in the CML or in Regulation (EU) 2021/821.

X.C.III.101 Preforms of glass or of any other material optimised for the manufacture of optical fibres controlled by X.A.III.101.

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X.D.III.101 'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment controlled by X.A.III.101 and X.B.III.101, and dynamic adaptive routing 'software' as described as follows:

- a. 'Software', other than in machine-executable form, specially designed for 'dynamic adaptive routing';
- b. Not used.

X.E.III.101 'Technology' for the 'development', 'production' or 'use' of equipment controlled by X.A.III.101 or X.B.III.101, or 'software' controlled by X.D.III.101, and other 'technologies' as follows:

- a. Specific 'technologies' as follows:
 - 1. 'Technology' for the processing and application of coatings to optical fibre specially designed to make it suitable for underwater use;
 - 2. 'Technology' for the 'development' of equipment employing 'Synchronous Digital Hierarchy' ('SDH') or 'Synchronous Optical Network' ('SONET') techniques.

Technical Note: For the purpose of X.E.III.101:

- 1) 'Synchronous digital hierarchy' (SDH) is a digital hierarchy providing a means to manage, multiplex, and access various forms of digital traffic using a synchronous transmission format on different types of media. The format is based on the Synchronous Transport Module (STM) that is defined by CCITT Recommendation G.703, G.707, G.708, G.709 and others yet to be published. The first level rate of 'SDH' is 155,52 Mbits/s.
- 2) 'Synchronous optical network' (SONET) is a network providing a means to manage, multiplex and access various forms of digital traffic using a synchronous transmission format on fibre optics. The format is the North America version of 'SDH' and also uses the Synchronous Transport Module (STM). However, it uses the Synchronous Transport Signal (STS) as the basic transport module with a first level rate of 51,81 Mbits/s. The SONET standards are being integrated into those of 'SDH'.

Category III. Part 2 – Information Security

Note: Category III. Part 2 does not control goods for the personal use of the natural persons.

X.A.III.201 Equipment as follows:

- a. Not used;
- b. Not used;
- c. Goods classified as mass market encryption in accordance with Cryptography Note – Note 3 to Category 5, Part 2 ⁽¹⁾.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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X.D.III.201 'Information Security' 'software' as follows:

Note: This entry does not control 'software' designed or modified to protect against malicious computer damage, e.g., viruses, where the use of 'cryptography' is limited to authentication, digital signature and/or the decryption of data or files.

- a. Not used;
- b. Not used;
- c. 'Software' classified as mass market encryption 'software' in accordance with Cryptography Note – Note 3 to Category 5, Part 2 ⁽¹⁾.

X.E.III.201 'Information Security' 'technology' according to the General Technology Note, as follows:

- a. Not used;
- b. 'Technology', other than specified in the CML or in Regulation (EU) 2021/821, for the 'use' of mass market goods controlled by X.A.III.201.c or mass market 'software' controlled by X.D.III.201.c.

Category IV – Sensors and Lasers

X.A.IV.001 Marine or terrestrial acoustic equipment, capable of detecting or locating underwater objects or features or positioning surface vessels or underwater vehicles; and specially designed components, other than those specified in the CML or in Regulation (EU) 2021/821.

X.A.IV.002 Optical Sensors as follows:

- a. Image intensifier tubes and specially designed components therefor, as follows:
 - 1. Image intensifier tubes having all the following:
 - a. A peak response in wavelength range exceeding 400 nm, but not exceeding 1 050 nm;
 - b. A microchannel plate for electron image amplification with a hole pitch (centre-to-centre spacing) of less than 25 µm; and
 - c. Having any of the following:
 - 1. An S-20, S-25 or multialkali photocathode; or
 - 2. A GaAs or GaInAs photocathode;
 - 2. Specially designed microchannel plates having both of the following characteristics:
 - a. 15 000 or more hollow tubes per plate; and
 - b. Hole pitch (centre-to-centre spacing) of less than 25 µm.
- b. Direct view imaging equipment operating in the visible or infrared spectrum, incorporating image intensifier tubes having the characteristics listed in X.A.IV.002.a.1.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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X.A.IV.003 Cameras as follows:

- a. Cameras that meet the criteria of Note 3 to 6A003.b.4. ⁽¹⁾;
- b. Not used;

X.A.IV.004 Optics as follows:

Note: X.A.IV.004 does not control optical filters with fixed air gaps or Lyot-type filters.

a. Optical filters:

- 1. For wavelengths longer than 250 nm, comprised of multi-layer optical coatings and having either of the following:
 - a. Bandwidths equal to or less than 1 nm Full Width Half Intensity (FWHI) and peak transmission of 90 % or more; or
 - b. Bandwidths equal to or less than 0,1 nm FWHI and peak transmission of 50 % or more;
- 2. For wavelengths longer than 250 nm, and having all of the following:
 - a. Tunable over a spectral range of 500 nm or more;
 - b. Instantaneous optical bandpass of 1,25 nm or less;
 - c. Wavelength resettable within 0,1 ms to an accuracy of 1 nm or better within the tunable spectral range; and
 - d. A single peak transmission of 91 % or more;
- 3. Optical opacity switches (filters) with a field of view of 30° or wider and a response time equal to or less than 1 ns;
- b. 'Fluoride fibre' cable, or optical fibres therefor, having an attenuation of less than 4 dB/km in the wavelength range exceeding 1 000 nm but not exceeding 3 000 nm;

Technical Note: For the purpose of X.A.IV.004.b 'Fluoride fibres' are fibres manufactured from bulk fluoride compounds.

X.A.IV.005 'Lasers' as follows:

- a. Carbon dioxide (CO₂) 'lasers' having any of the following:
 - 1. A CW output power exceeding 10 kW;
 - 2. A pulsed output with a 'pulse duration' exceeding 10 µs; and
 - a. An average output power exceeding 10 kW; or
 - b. A pulsed 'peak power' exceeding 100 kW; or

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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3. A pulsed output with a 'pulse duration' equal to or less than 10 μ s; and
 - a. A pulse energy exceeding 5 J per pulse and 'peak power' exceeding 2,5 kW; or
 - b. An average output power exceeding 2,5 kW;
- b. Semiconductor lasers, as follows:
 1. Individual, single-transverse mode semiconductor 'lasers' having:
 - a. An average output power exceeding 100 mW; or
 - b. A wavelength exceeding 1 050 nm;
 2. Individual, multiple-transverse mode semiconductor 'lasers', or arrays of individual semiconductor 'lasers', having a wave-length exceeding 1 050 nm;
- c. Ruby 'lasers' having an output energy exceeding 20 J per pulse;
- d. Non-'tunable' 'pulsed lasers' having an output wavelength exceeding 975 nm but not exceeding 1 150 nm and having any of the following:
 1. A 'pulse duration' equal to or exceeding 1 ns but not exceeding 1 μ s, and having any of the following:
 - a. A single transverse mode output and having any of the following:
 1. A 'wall-plug efficiency' exceeding 12 % and an 'average output power' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1 kHz; or
 2. An 'average output power' exceeding 20 W; or
 - b. A multiple transverse mode output and having any of the following:
 1. A 'wall-plug efficiency' exceeding 18 % and an 'average output power' exceeding 30W;
 2. A 'peak power' exceeding 200 MW; or
 3. An 'average output power' exceeding 50 W; or
 2. A 'pulse duration' exceeding 1 μ s and having any of the following:
 - a. A single transverse mode output and having any of the following:
 1. A 'wall-plug efficiency' exceeding 12 % and an 'average output power' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1 kHz; or
 2. An 'average output power' exceeding 20 W; or

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- b. A multiple transverse mode output and having any of the following:
 - 1. A 'wall-plug efficiency' exceeding 18 % and an 'average output power' exceeding 30 W; or
 - 2. An 'average output power' exceeding 500 W;
- e. Non-'tunable' continuous wave '(CW) lasers', having an output wavelength exceeding 975 nm but not exceeding 1 150 nm and having any of the following:
 - 1. A single transverse mode output and having any of the following:
 - a. A 'wall-plug efficiency' exceeding 12 % and an 'average output power' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1 kHz; or
 - b. An 'average output power' exceeding 50 W; or
 - 2. A multiple transverse mode output and having any of the following:
 - a. A 'wall-plug efficiency' exceeding 18 % and an 'average output power' exceeding 30 W; or
 - b. An 'average output power' exceeding 500 W;

Note: X.A.IV.005.e.2.b does not control multiple transverse mode, industrial 'lasers' with output power less than or equal to 2 kW with a total mass greater than 1 200kg. For the purpose of this note, total mass includes all components required to operate the 'laser', e.g., 'laser', power supply, heat exchanger, but excludes external optics for beam conditioning and/or delivery.

- f. Non-'tunable' 'lasers', having a wavelength exceeding 1 400 nm, but not exceeding 1 555 nm and having any of the following:
 - 1. An output energy exceeding 100 mJ per pulse and a pulsed 'peak power' exceeding 1 W; or
 - 2. An average or CW output power exceeding 1 W;
- g. Free electron 'lasers'.

Technical Note: For the purpose of X.A.IV.005 'Wall-plug efficiency' is defined as the ratio of 'laser' output power (or 'average output power') to total electrical input power required to operate the 'laser', including the power supply/conditioning and thermal conditioning/heat exchanger.

- X.A.IV.006 'Magnetometers', 'Superconductive' electromagnetic sensors, and specially designed components therefor, as follows:
- a. 'Magnetometers', other than those specified in the CML or in Regulation (EU) 2021/821, having a 'sensitivity' lower (better) than 1,0 nT (rms) per square root Hz.

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Technical Note: For the purposes of X.A.IV.006.a, 'sensitivity' (noise level) is the root mean square of the device-limited noise floor which is the lowest signal that can be measured.

- b. 'Superconductive' electromagnetic sensors, components manufactured from 'superconductive' materials:
 - 1. Designed for operation at temperatures below the 'critical temperature' of at least one of their 'superconductive' constituents (including Josephson effect devices or 'superconductive' quantum interference devices (SQUIDS));
 - 2. Designed for sensing electromagnetic field variations at frequencies of 1 kHz or less; and
 - 3. Having any of the following characteristics:
 - a. Incorporating thin-film SQUIDS with a minimum feature size of less than 2 μm and with associated input and output coupling circuits;
 - b. Designed to operate with a magnetic field slew rate exceeding 1×10^6 magnetic flux quanta per second;
 - c. Designed to function without magnetic shielding in the earth's ambient magnetic field; or
 - d. Having a temperature coefficient less (smaller) than 0,1 magnetic flux quantum/K.

X.A.IV.007 Gravity meters (gravimeters) for ground use, other than those specified in the CML or in Regulation (EU) 2021/821, as follows:

- a. Having a static accuracy of less (better) than 100 μGal ; or
- b. Being of the quartz element (Worden) type.

X.A.IV.008 Radar systems, equipment and major components, other than those specified in the CML or in Regulation (EU) 2021/821, and specially designed components therefor, as follows:

- a. Airborne radar equipment, other than those specified in the CML or in Regulation (EU) 2021/821, and specially designed components therefor;
- b. 'Space-qualified' 'laser' radar or Light Detection and Ranging (LIDAR) equipment specially designed for surveying or for meteorological observation;
- c. Millimeter wave enhanced vision radar imaging systems specially designed for rotary wing aircraft and having all of the following:
 - 1. Operates at a frequency of 94 GHz;
 - 2. An average output power of less than 20 mW;
 - 3. Radar beam width of 1 degree; and
 - 4. Operating range equal to or greater than 1 500 m.

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X.A.IV.009 Specific processing equipment, as follows:

- a. Seismic detection equipment not controlled by X.A.IV.009.c;
- b. Radiation hardened TV cameras, other than those specified in the CML or in Regulation (EU) 2021/821; or
- c. Seismic intrusion detection systems that detect, classify and determine the bearing on the source of a detected signal.

X.B.IV.001 Equipment, including tools, dies, fixtures or gauges, and other specially designed components and accessories therefor, specially designed or modified for any of the following:

- a. For the manufacture or inspection of:
 1. Free electron ‘laser’ magnet wigglers;
 2. Free electron ‘laser’ photo injectors;
- b. For the adjustment, to required tolerances, of the longitudinal magnetic field of free electron ‘lasers’.

X.C.IV.001 Optical sensing fibres that are modified structurally to have a ‘beat length’ of less than 500 mm (high birefringence) or optical sensor materials not described in 6C002.b ⁽¹⁾ and having a zinc content of equal to or more than 6 % by ‘mole fraction.’

Technical Note: For the purpose of X.C.IV.001:

- 1) ‘Mole fraction’ is defined as the ratio of moles of ZnTe to the sum of the moles of CdTe and ZnTe present in the crystal.
- 2) ‘Beat length’ is the distance over which two orthogonally polarised signals, initially in phase, must pass in order to achieve a 2 Pi radian(s) phase difference.

X.C.IV.002 Optical materials, as follows:

- a. Low optical absorption materials, as follows:
 1. Bulk fluoride compounds containing ingredients with a purity of 99,999 % or better; or

Note: X.C.IV.002.a.1 controls fluorides of zirconium or aluminium and variants.

2. Bulk fluoride glass made from compounds controlled by 6C004.e.1 ⁽¹⁾;
- b. ‘Optical fibre preforms’ made from bulk fluoride compounds containing ingredients with a purity of 99,999 % or better, specially designed for the manufacture of ‘fluoride fibres’ controlled by X.A.IV.004.b.

Technical Note: For the purpose of X.C.IV.002:

- 1) ‘Fluoride fibres’ are fibres manufactured from bulk fluoride compounds.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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2) *‘Optical fibre preforms’ are bars, ingots, or rods of glass, plastic or other materials that have been specially processed for use in fabricating optical fibres. The characteristics of the preform determine the basic parameters of the resultant drawn optical fibres.*

X.D.IV.001 ‘Software’, other than those specified in the CML or in Regulation (EU) 2021/821, specially designed for the ‘development’, ‘production’, or ‘use’ of goods controlled by 6A002, 6A003 ⁽¹⁾, X.A.IV.001, X.A.IV.006, X.A.IV.007, or X.A.IV.008.

X.D.IV.002 ‘Software’ specially designed for the ‘development’ or ‘production’ of equipment controlled by X.A.IV.002, X.A.IV.004, or X.A.IV.005.

X.D.IV.003 Other ‘software’, as follows:

- a. Air Traffic Control (ATC) ‘software’ application ‘programs’ hosted on general purpose computers located at Air Traffic Control centres, and capable of automatically handing over primary radar target data (if not correlated with secondary surveillance radar (SSR) data) from the host ATC centre to another ATC centre;
- b. ‘Software’ specially designed for seismic intrusion detection systems in X.A.IV.009.c; or
- c. ‘Source code’ specially designed for seismic intrusion detection systems in X.A.IV.009.c.

X.E.IV.001 ‘Technology’ for the ‘development’, ‘production’ or ‘use’ of equipment controlled by X.A.IV.001, X.A.IV.006, X.A.IV.007, X.A.IV.008 or X.A.IV.009.c.

X.E.IV.002 ‘Technology’ for the ‘development’ or ‘production’ of equipment, materials or ‘software’ controlled by X.A.IV.002, X.A.IV.004, or X.A.IV.005, X.B.IV.001, X.C.IV.001, X.C.IV.002, or X.D.IV.003.

X.E.IV.003 Other ‘technology’ as follows:

- a. Optical fabrication technologies for serially producing optical components at a rate exceeding 10 m² of surface area per year on any single spindle and having all of the following:
 1. Area exceeding 1 m²; and
 2. Surface figure exceeding $\lambda/10$ (rms) at the designed wavelength;
- b. ‘Technology’ for optical filters with a bandwidth equal to or less than 10 nm, a field of view (FOV) exceeding 40° and a resolution exceeding 0,75 line pairs per milliradian;
- c. ‘Technology’ for the ‘development’ or ‘production’ of cameras controlled by X.A.IV.003;
- d. ‘Technology’ ‘required’ for the ‘development’ or ‘production’ of non-triaxial fluxgate ‘magnetometers’ or non-triaxial fluxgate ‘magnetometer’ systems, having any of the following:
 1. ‘Sensitivity’ lower (better) than 0,05 nT (rms) per square root Hz at frequencies of less than 1 Hz; or
 2. ‘Sensitivity’ lower (better) than 1×10^{-3} nT (rms) per square root Hz at frequencies of 1 Hz or more.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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e. ‘Technology’ ‘required’ for the ‘development’ or ‘production’ of infrared up-conversion devices having all of the following:

1. A response in the wavelength range exceeding 700 nm but not exceeding 1 500 nm; and
2. A combination of an infrared photodetector, light emitting diode (OLED), and nanocrystal to convert infrared light into visible light.

Technical Note: For the purposes of X.E.IV.003, ‘sensitivity’ (or noise level) is the root mean square of the device-limited noise floor which is the lowest signal that can be measured.

Category V – Navigation and Avionics

X.A.V.001 Airborne communication equipment, all ‘aircraft’ inertial navigation systems, and other avionic equipment, including components, other than those specified in the CML or in Regulation (EU) 2021/821.

Note 1: X.A.V.001. does not control headsets or microphones.

Note 2: X.A.V.001. does not control goods for the personal use of the natural persons.

X.B.V.001 Other equipment specially designed for the test, inspection, or ‘production’ of navigation and avionics equipment.

X.D.V.001 ‘Software’, other than specified in the CML or in Regulation (EU) 2021/821, for the ‘development’, ‘production’, or ‘use’ of navigation, airborne communication and other avionics.

X.E.V.001 ‘Technology’, other than specified in the CML or in Regulation (EU) 2021/821, for the ‘development’, ‘production’ or ‘use’ of navigation, airborne communication, and other avionics equipment.

Category VI – Marine

X.A.VI.001 Vessels, marine systems or equipment, and specially designed components therefor, components and accessories as follows:

a. Underwater vision systems, as follows:

1. Television systems (comprising camera, lights, monitoring and signal transmission equipment) having a limiting resolution when measured in air of more than 500 lines and specially designed or modified for remote operation with a submersible vehicle; or
2. Underwater television cameras having a limiting resolution when measured in air of more than 700 lines;

Technical Note: Limiting resolution in television is a measure of horizontal resolution usually expressed in terms of the maximum number of lines per picture height discriminated on a test chart, using IEEE Standard 208/1960 or any equivalent standard.

b. Photographic still cameras specially designed or modified for underwater use, having a film format of 35 mm or larger, and having autofocus or remote focusing specially designed for underwater use;

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- c. Stroboscopic light systems, specially designed or modified for underwater use, capable of a light output energy of more than 300 J per flash;
- d. Other underwater camera equipment, other than those specified in the CML or in Regulation (EU) 2021/821;
- e. Marine boilers designed to have any of the following characteristics:
 - 1. Heat release rate (at maximum rating) equal to or in excess of 1 966,4 kW/m³ of furnace volume; or
 - 2. Ratio of steam generated in kilogram per hour (at maximum rating) to the dry weight of the boiler in kilograms equal to or in excess of 37,6;
- f. Vessels (surface or underwater), including inflatable boats, and specially designed components therefor, other than those specified in the CML or in Regulation (EU) 2021/821;

Note: X.A.VI.001.f does not control vessels on temporary sojourn, used for private transport or for the transport of passengers or goods from or through the customs territory of the Union.

- g. Marine engines (both inboard and outboard) and submarine engines and specially designed components therefor, other than those specified in the CML or in Regulation (EU) 2021/821;
- h. Self-contained underwater breathing apparatus (scuba gear) and accessories therefor, other than those specified in the CML or in Regulation (EU) 2021/821;
- i. Life jackets, inflation cartridges, dive compasses and dive computers;

Note: X.A.VI.001.i does not control goods for the personal use of the natural persons.

- j. Underwater lights and propulsion equipment; or

Note: X.A.VI.001.j does not control goods for the personal use of the natural persons.

- k. Air compressors and filtration system specially designed for filling air cylinders.

X.D.VI.001 'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment controlled by X.A.VI.001.

X.D.VI.002 'Software' specially designed for the operation of unmanned submersible vehicles used in the oil and gas industry.

X.E.VI.001 'Technology' for the 'development', 'production' or 'use' of equipment controlled by X.A.VI.001.

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Category VII – Aerospace and Propulsion

X.A.VII.001 Diesel engines, and tractors and specially designed components therefor, other than those specified in the CML or in Regulation (EU) 2021/821:

- a. Diesel engines, other than those specified in the CML or in Regulation (EU) 2021/821, for trucks, tractors, and automotive applications, having an overall power output of 298 kW or more.
- b. Off highway wheel tractors of carriage capacity 9 tonnes or more; and major components and accessories, other than those specified in the CML or in Regulation (EU) 2021/821.
- c. Road tractors for semi-trailers, with single or tandem rear axles rated for 9 tonnes per axel or more and specially designed major components.

Note: X.A.VII.001.b and X.A.VII.001.c do not control vehicles on temporary sojourn, used for private transport or for the transport of passengers or goods from or through the customs territory of the Union.

X.A.VII.002 Gas turbine engines and components, other than those specified in the CML or in Regulation (EU) 2021/821.

- a. Not used.
- b. Not used.
- c. Aero gas turbine engines and components specially designed therefor.
- d. Not used.
- e. Pressurised aircraft breathing equipment components specially designed therefor, other than those specified in the CML or in Regulation (EU) 2021/821.

X.A.VII.003 Aircraft engines, other than those specified in X.A.VII.002, the CML or in Regulation (EU) 2021/821, as follows:

- a. Reciprocating or rotary internal combustion piston engines; or
- b. Electric engines.

Technical Note: For the purpose of X.A.VII.003 aircrafts includes: aeroplanes, UAVs, helicopters, autogyros, hybrid aircrafts or radio-controlled models.

X.B.VII.001 Vibration test equipment and specially designed components, other than those specified in the CML or in Regulation (EU) 2021/821.

Note: X.B.VII.001. controls only equipment for the 'development' or 'production'. It does not control condition monitoring systems.

X.B.VII.002 Specially designed equipment, tooling or fixtures for manufacturing or measuring gas turbine blades, vanes or tip shroud castings, as follows:

- a. Automated equipment using non-mechanical methods for measuring airfoil wall thickness;

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- b. Tooling, fixtures or measuring equipment for the ‘laser’, water jet or ECM/EDM hole drilling processes controlled by 9E003.c ⁽¹⁾;
 - c. Ceramic core leaching equipment;
 - d. Ceramic core manufacturing equipment or tools;
 - e. Ceramic shell wax pattern preparation equipment;
 - f. Ceramic shell burn out or firing equipment.
- X.D.VII.001 ‘Software’, other than those specified in the CML or in Regulation (EU) 2021/821, for the ‘development’ or ‘production’ of equipment controlled by X.A.VII.001 or X.B.VII.001.
- X.D.VII.002 ‘Software’, for the ‘development’ or ‘production’ of equipment controlled by X.A.VII.002 or X.B.VII.002.
- X.E.VII.001 ‘Technology’, other than those specified in the CML or in Regulation (EU) 2021/821, for the ‘development’ or ‘production’ or ‘use’ of equipment controlled by X.A.VII.001 or X.B.VII.001.
- X.E.VII.002 ‘Technology’, for the ‘development’, ‘production’ or ‘use’ of equipment controlled by X.A.VII.002 or X.B.VII.002.
- X.E.VII.003 Other ‘technology’, not described by 9E003 ⁽¹⁾, as follows:
- a. Rotor blade tip clearance control systems employing active compensating casing ‘technology’ limited to a design and development data base; or
 - b. Gas bearing for turbine engine rotor assemblies.

Category VIII – Miscellaneous items

- X.A.VIII.001 Equipment for oil production or oil exploration as follows:
- a. Drill head integrated measurement equipment, including inertial navigation systems for measurement while drilling (MWD);
 - b. Gas monitoring systems and detectors therefor, designed for continuous operation and detection of hydrogen sulphide;
 - c. Equipment for seismological measurements, including reflection seismics and seismic vibrators;
 - d. Sediment echo sounders.
- X.A.VIII.002 Equipment, ‘electronic assemblies’ and components, specially designed for quantum computers, quantum electronics, quantum sensors, quantum processing units, qubit circuits, qubit devices or quantum radar systems, including pockels cells.

Note 1: Quantum computers perform computations that harness the collective properties of quantum states, such as superposition, interference and entanglement.

Note 2: Units, circuits and devices include but are not limited to superconducting circuits, Quantum annealing, Ion Trap, photonic interaction, silicon/spin, cold atoms.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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X.A.VIII.003 Microscopes, related equipment and detectors as follows:

- a. Scanning electron microscopes (SEM);
- b. Scanning auger microscopes;
- c. Transmission electron microscopes (TEM);
- d. Atomic force microscopes (AFM);
- e. Scanning force microscopes (SFM);
- f. Equipment and detectors, specially designed for use with the microscopes specified in X.A.VIII.003.a to X.A.VIII.003.e, employing any of the following material analysis techniques:
 1. X-ray photo spectroscopy (XPS);
 2. Energy-dispersive X-ray spectroscopy (EDX, EDS) or
 3. Electron spectroscopy for chemical analysis (ESCA).

X.A.VIII.004 Collector equipment for metal ores in deep seabed.

X.A.VIII.005 Manufacturing equipment and machine tools as follows:

- a. Additive manufacturing equipment for the ‘production’ of metal parts;

Note: X.A.VIII.005.a only applies to the following systems:

1. Powder-bed systems using selective laser melting (SLM), laser cusing, direct metal laser sintering (DMLS) or electron beam melting (EBM); or
2. Powder-fed systems using laser cladding, direct energy deposition or laser metal deposition.

- b. Additive manufacturing equipment for ‘energetic materials’, including equipment using ultrasonic extrusion;
- c. Vat photopolymerization (VVP) additive manufacturing equipment using stereo lithography (SLA) or digital light processing (DLP).

X.A.VIII.006 Equipment for the ‘production’ of printed electronics for organic light emitting diodes (OLED), organic field-effect transistors (OFET) or organic photovoltaic cells (OPVC).

X.A.VIII.007 Equipment for the ‘production’ of microelectromechanical systems (MEMS) using the mechanical properties of silicon, including sensors in chip format like pressure membranes, bending beams or micro adjustment devices.

X.A.VIII.008 Equipment, specially designed for the production of E-Fuels (electrofuels and synthetic fuels) or ultra efficient solar cells (efficiency > 30 %).

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X.A.VIII.009 Equipment for Ultra-High-Vacuum (UHV) as follows:

- a. UHV pumps (sublimation, turbomolecular, diffusion, cryogenic, ion getter);
- b. UHV pressure gauges.

Note: UHV means 100 nanoPascals (nPa) or lower.

X.A.VIII.010 'Cryogenic refrigeration systems' designed to maintain temperatures below 1,1 K for 48 hrs or more and related cryogenic refrigeration equipment as follows:

- a. Pulse Tubes;
- b. Cryostats;
- c. Dewars;
- d. Gas Handling System (GHS);
- e. Compressors; or
- f. Control Units.

Note: 'Cryogenic refrigeration systems' include but are not limited to Dilution Refrigeration, Adiabatic Demagnetisation Refrigerators and Laser Cooling Systems.

X.A.VIII.011 'Decapsulation' equipment for semiconductor devices.

Note: 'Decapsulation' is the removal of a cap, lid, or encapsulating material from a packaged integrated circuit by mechanical, thermal, or chemical means.

X.A.VIII.012 High Quantum Efficiency (QE) photodetectors with a QE greater than 80 % in the wavelength range exceeding 400 nm but not exceeding 1 600 nm.

X.A.VIII.013 Numerical controlled machine tools, having one or more linear axis with a travel length greater than 8 000 mm.

X.A.VIII.014 Water cannon systems for riot or crowd control, and components specially designed therefor.

Note: X.A.VIII.014 water cannon systems include, for example: vehicles or fixed stations equipped with remotely operated water cannon that are designed to protect the operator from an outside riot with features such as armor, shatter resistant windows, metal screens, bull-bars, or run-flat tires. Components specially designed for water cannons may include, for example: deck gun water nozzles, pumps, reservoirs, cameras, and lights that are hardened or shielded against projectiles, elevating masts for those items, and teleoperation systems for those items.

X.A.VIII.015 Law enforcement striking weapons, including saps, police batons, side handle batons, tonfas, sjamboks, and whips.

X.A.VIII.016 Police helmets and shields; and specially designed components, other than those specified in the CML or in Regulation (EU) 2021/821.

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X.A.VIII.017 Law enforcement restraint devices, including leg irons, shackles, and handcuffs; straight jackets; stun cuffs; shock belts; shock sleeves; multipoint restraint devices such as restraint chairs; and specially designed components and accessories, other than those specified in the CML or in Regulation (EU) 2021/821.

Note: X.A.VIII.017 applies to restraint devices used in law enforcement activities. It does not apply to medical devices that are equipped to restrain patient movement during medical procedures. It does not apply to devices that confine memory impaired patients to appropriate medical facilities. It does not apply to safety equipment such as safety belts or child automobile safety seats.

X.A.VIII.018 Oil and gas exploration equipment, 'software', and data, as follows (see List of Items Controlled):

- a. Not used.
- b. Hydraulic fracturing items, as follows:
 1. Hydraulic fracturing design and analysis 'software' and data;
 2. Hydraulic fracturing 'proppant', 'fracking fluid', and chemical additives therefor; or
 3. High pressure pumps.

Technical Note:

A 'proppant' is a solid material, typically treated sand or man-made ceramic materials, designed to keep an induced hydraulic fracture open, during or following a fracturing treatment. It is added to a 'fracking fluid' which may vary in composition depending on the type of fracturing used, and can be gel, foam or slickwater-based.

X.A.VIII.019 Specific processing equipment, as follows (see List of Items Controlled):

- a. Ring magnets;
- b. Not used.

X.A.VIII.020 Weapons and devices designed for the purpose of riot control or self-protection, as follows:

- a. Portable electric discharge weapons that can target only one individual each time an electric shock is administered, including but not limited to electric shock batons, electric shock shields, stun guns and electric shock dart guns;
- b. Kits containing all essential components for assembly of portable electric discharge weapons controlled by item X.A.VIII.020.a; or

Note: The following goods are considered to be essential components:

1. The unit producing an electric shock;
2. The switch, whether or not on a remote control; and
3. The electrodes or, where applicable, the wires through which the electrical shock is to be administered.

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- c. Fixed or mountable electric discharge weapons that cover a wide area and can target multiple individuals with electrical shocks.

X.A.VIII.021 Weapons and equipment disseminating incapacitating or irritating chemical substances for the purpose of riot control or self-protection and certain related substances, as follows:

- a. Portable weapons and equipment which either administer a dose of an incapacitating or irritating chemical substance that targets one individual or disseminate a dose of such substance affecting a small area, e.g. in the form of a spray fog or cloud, when the chemical substance is administered or disseminated;

Note 1: This item does not control equipment controlled by item ML7(e) of the CML of the European Union.

Note 2: This item does not control individual portable equipment, even if containing a chemical substance, when accompanying their user for the user's own personal protection.

Note 3: In addition to relevant chemical substances, such as riot control agents or PAVA, the goods controlled by items X.A.VIII.021.c and X.A.VIII.021.d shall be deemed to be incapacitating or irritating chemical substances.

- b. Pelargonic acid vanillylamide (PAVA) (CAS 2444-46-4);
- c. Oleoresin capsicum (OC) (CAS 8023-77-6);
- d. Mixtures containing at least 0,3 % by weight of PAVA or OC and a solvent (such as ethanol, 1-propanol or hexane), which could be administered as such as incapacitating or irritating agents, in particular in aerosols and in liquid form, or used for manufacturing of incapacitating or irritating agents;

Note 1: This item does not control sauces and preparations therefor, soups or preparations therefor and mixed condiments or seasonings, provided that PAVA or OC is not the only constituent flavour in them.

Note 2: This item does not control medicinal products for which a marketing authorisation has been granted in accordance with Union law.

- e. Fixed equipment for the dissemination of incapacitating or irritating chemical substances, which can be attached to a wall or to a ceiling inside a building, comprises a canister of irritating or incapacitating chemical agents and is activated using a remote control system; or

Note: In addition to relevant chemical substances, such as riot control agents or PAVA, the goods controlled by items X.A.VIII.021.c and X.A.VIII.021.d shall be deemed to be incapacitating or irritating chemical substances.

- f. Fixed or mountable equipment for the dissemination of incapacitating or irritating chemical agents that covers a wide area and is not designed to be attached to a wall or to a ceiling inside a building;

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Note 1: This item does not control equipment controlled by item ML7(e) of the CML of the European Union.

Note 2: In addition to relevant chemical substances, such as riot control agents or PAVA, the goods controlled by items X.A.VIII.021.c and X.A.VIII.021.d shall be deemed to be incapacitating or irritating chemical substances.

g. Other irritating chemical substances, and mixtures thereof containing at least 0,3 % by weight of the active substance, as follows:

1. Dibenzo[b,f][1,4]oxazepine (CR) (CAS 257-07-8);
2. 8-Methyl-N-vanillyl-trans-6-nonenamide (capsaicin) (CAS 404-86-4);
3. 8-Methyl-N-vanillylnonamide (dihydrocapsaicin) (CAS 19408-84-5);
4. N-Vanillyl-9-methyldec-7-(E)-enamide (homocapsaicin) (CAS 58493-48-4);
5. N-Vanillyl-9-methyldecanamide (homodihydrocapsaicin) (CAS 20279-06-5);
6. N-Vanillyl-7-methyloctanamide (nordihydrocapsaicin) (CAS 28789-35-7);
7. 4-Nonanolylmorpholine (MPA) (CAS 5299-64-9);
8. Cis-4-acetylamino-dicyclohexylmethane (CAS 37794-87-9);
9. N,N'-Bis(isopropyl)ethylenediimine; or
10. N,N'-Bis(tert-butyl)ethylenediimine.

X.A.VIII.022 Products which could be used for the execution of human beings by means of lethal injection, as follows:

- a. Short and intermediate acting barbiturate anaesthetic agents including, but not limited to:
 1. Amobarbital (CAS 57-43-2);
 2. Amobarbital sodium salt (CAS 64-43-7);
 3. Pentobarbital (CAS 76-74-4);
 4. Pentobarbital sodium salt (CAS 57-33-0);
 5. Secobarbital (CAS 76-73-3);
 6. Secobarbital sodium salt (CAS 309-43-3);
 7. Thiopental (CAS 76-75-5); or
 8. Thiopental sodium salt (CAS 71-73-8), also known as thio-pentone sodium;
- b. Products containing one of the anaesthetic agents listed under X.A.VIII.022.a.

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- X.A.VIII.023 Nettings, canopies, tents, blankets and apparel, specially designed for camouflage.
- X.B.VIII.001 Specific processing equipment, as follows (see List of Items Controlled):
- a. Hot cells; or
 - b. Glove boxes suitable for use with radioactive materials.
- X.C.VIII.001 Metal powders and metal alloy powders, usable for any of the systems listed in X.A.VIII.005.a.
- X.C.VIII.002 Advanced materials as follows:
- a. Materials for cloaking or adaptive camouflage;
 - b. Metamaterials, e.g. with a negative refractive index;
 - c. Not used;
 - d. High entropy alloys (HEA);
 - e. Heusler compounds; or
 - f. Kitaev materials, including kitaev spin liquids.
- X.C.VIII.003 Conjugated polymers (conductive, semiconductive, electroluminescent) for printed or organic electronics.
- X.C.VIII.004 Energetic materials as follows and mixtures thereof:
- a. Ammonium picrate (CAS 131-74-8);
 - b. Black powder;
 - c. Hexanitrodiphenylamine (CAS 131-73-7);
 - d. Difluoroamine(CAS 10405-27-3);
 - e. Nitrostarch (CAS9056-38-6);
 - f. Not used;
 - g. Tetranitronaphthalene;
 - h. Trinitroanisole;
 - i. Trinitronaphthalene;
 - j. Trinitroxylen;
 - k. N-pyrrolidinone; 1-methyl-2-pyrrolidinone (CAS 872-50-4);
 - l. Dioctylmaleate (CAS 142-16-5);
 - m. Ethylhexylacrylate (CAS 103-11-7);
 - n. Triethylaluminium (TEA) (CAS 97-93-8), trimethylaluminium (TMA) (CAS 75-24-1), and other pyrophoric metal alkyls and aryls of lithium, sodium, magnesium, zinc or boron;
 - o. Nitrocellulose (CAS 9004-70-0);
 - p. Nitroglycerin (or glyceroltrinitrate, trinitroglycerine) (NG) (CAS 55-63-0);

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- q. 2,4,6-trinitrotoluene (TNT) (CAS 118-96-7);
 - r. Ethylenediaminedinitrate (EDDN) (CAS 20829-66-7);
 - s. Pentaerythritoltetranitrate (PETN) (CAS 78-11-5);
 - t. Lead azide (CAS 13424-46-9), normal lead styphnate (CAS 15245-44-0) and basic lead styphnate (CAS 12403-82-6), and primary explosives or priming compositions containing azides or azide complexes;
 - u. Not used;
 - v. Not used;
 - w. Diethyldiphenylurea (CAS 85-98-3); dimethyldiphenylurea (CAS 611-92-7); methylethyldiphenyl urea.
 - x. N,N-diphenylurea (unsymmetrical diphenylurea) (CAS 603-54-3);
 - y. Methyl-N,N-diphenylurea (methyl unsymmetrical diphenylurea) (CAS 13114-72-2);
 - z. Ethyl-N,N-diphenylurea (ethyl unsymmetrical diphenylurea) (CAS 64544-71-4);
 - aa. Not used;
 - bb. 4-Nitrodiphenylamine (4-NDPA) (CAS 836-30-6);
 - cc. 2,2-dinitropropanol (CAS 918-52-5); or
 - dd. Not used.
- X.D.VIII.001 'Software', specially designed for the 'development', 'production' or 'use' of equipment specified in X.A.VIII.005 to X.A.VIII.0013.
- X.D.VIII.002 'Software', specially designed for the 'development', 'production' or 'use' of equipment, 'electronic assemblies' or components specified in X.A.VIII.002.
- X.D.VIII.003 'Software' for digital twins of additive manufacturing products or for the determination of the reliability of additive manufacturing products.
- X.D.VIII.004 'Software' specially designed for the 'development,' 'production' or 'use' of commodities controlled by X.A.VIII.014.
- X.D.VIII.005 Specific 'software', as follows (see List of Items Controlled):
- a. 'Software' for neutronic calculations/modeling;
 - b. 'Software' for radiation transport calculations/modeling; or
 - c. 'Software' for hydrodynamic calculations/modeling.
- X.E.VIII.001 'Technology' for the 'development', 'production' or 'use' of equipment specified in X.A.VIII.001 to X.A.VIII.0013.
- X.E.VIII.002 'Technology' for the 'development', 'production' or 'use' of materials specified in X.C.VIII.002 or X.C.VIII.003

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- X.E.VIII.003 ‘Technology’ for digital twins of additive manufacturing products, for the determination of the reliability of additive manufacturing products or for ‘software’ specified in X.D.VIII.003.
- X.E.VIII.004 ‘Technology’ for the ‘development’, ‘production’ or ‘use’ of ‘software’ specified in X.D.VIII.001 to X.D.VIII.002.
- X.E.VIII.005 ‘Technology’ ‘required’ for the ‘development’ or ‘production’ of commodities controlled by X.A.VIII.014.
- X.E.VIII.006 ‘Technology’ exclusively for the ‘development’ or ‘production’ of equipment controlled by X.A.VIII.017.

Category IX – Special Materials and Related Equipment

- X.A.IX.001 Chemical agents, including tear gas formulation containing 1 % or less of orthochlorobenzalmalononitrile (CS), or 1 % or less of chloroacetophenone (CN), except in individual containers with a net weight of 20 g or less; liquid pepper except when packaged in individual containers with a net weight of 85,05 g or less; smoke bombs; non-irritant smoke flares, canisters, grenades and charges; and other pyrotechnic articles having dual military and commercial use, and components specially designed therefor, other than those specified in the CML or in Regulation (EU) 2021/821.
- X.A.IX.002 Fingerprinting powders, dyes, and inks.
- X.A.IX.003 Protective and detection equipment not specially designed for military use and not controlled by 1A004 or 2B351 ⁽¹⁾, as follows (see List of Items Controlled), and components not specially designed for military use and not controlled by 1A004 or 2B351 therefor:
- a. Personal radiation monitoring dosimeters; or
 - b. Equipment limited by design or function to protect against hazards specific to civil industries, such as mining, quarrying, agriculture, pharmaceuticals, medical, veterinary, environmental, waste management, or to the food industry.

Note: X.A.IX.003 does not control items for protection against chemical or biological agents that are consumer goods, packaged for retail sale or personal use, or medical products, such as latex exam gloves, latex surgical gloves, liquid disinfectant soap, disposable surgical drapes, surgical gowns, surgical foot covers, and surgical masks.

- X.A.IX.004 Specific processing equipment, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):
- a. Radiation detection, monitoring and measurement equipment, other than those specified in the CML or in Regulation (EU) 2021/821; or
 - b. Radiographic detection equipment such as X-ray converters, and storage phosphor image plates.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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X.B.IX.001 Specific processing equipment, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):

- a. Electrolytic cells for fluorine production, other than those specified in the CML or in Regulation (EU) 2021/821;
- b. Particle accelerators;
- c. Industrial process control hardware/systems designed for power industries, other than those specified in the CML or in Regulation (EU) 2021/821;
- d. Freon and chilled water cooling systems capable of continuous cooling duties of 29,3 kW or greater; or
- e. Equipment for the production of structural composites, fibres, prepregs and preforms.

X.C.IX.001 Separate chemically defined compounds according to Note 1 to Chapters 28 and 29 of the Combined Nomenclature:

- a. In concentrations of 95 % weight or greater, as follows:
 1. Ethylene dichloride (CAS 107-06-2);
 2. Nitromethane (CAS 75-52-5);
 3. Picric acid (CAS 88-89-1);
 4. Aluminium chloride (CAS 7446-70-0);
 5. Arsenic (CAS 7440-38-2);
 6. Arsenic trioxide (CAS 1327-53-3);
 7. Bis(2-chloroethyl)ethylamine hydrochloride (CAS 3590-07-6);
 8. Bis(2-chloroethyl)methylamine hydrochloride (CAS 55-86-7);
 9. Tris(2-chloroethyl)amine hydrochloride (CAS 817-09-4);
 10. Tributylphosphite (CAS 102-85-2);
 11. Isocyanatomethane (CAS 624-83-9);
 12. Quinaldine (CAS 91-63-4);
 13. 2-bromochloroethane (CAS 107-04-0);
 14. Benzil (CAS 134-81-6);
 15. Diethyl ether (CAS 60-29-7);
 16. Dimethyl ether (CAS 115-10-6);
 17. Dimethylaminoethanol (CAS 108-01-0);
 18. 2-methoxyethanol (CAS 109-86-4);

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19. Butyrylcholinesterase (BCHE);
 20. Diethylenetriamine (CAS 111-40-0);
 21. Dichloromethane (CAS 75-09-2);
 22. Dimethylaniline (CAS 121-69-7);
 23. Ethyl bromide (CAS 74-96-4);
 24. Ethyl chloride (CAS 75-00-3);
 25. Ethylamine (CAS 75-04-7);
 26. Hexamine (CAS 100-97-0);
 27. Isopropanol (CAS 67- 63-0);
 28. Isopropyl bromide (CAS 75-26-3);
 29. Isopropyl ether (CAS 108-20-3);
 30. Methylamine (CAS 74-89-5);
 31. Methyl bromide (CAS 74-83-9);
 32. Monoisopropylamine (CAS 75-31-0);
 33. Obidoxime chloride (CAS 114-90-9);
 34. Potassium bromide (CAS 7758-02-3);
 35. Pyridine (CAS 110-86-1);
 36. Pyridostigmine bromide (CAS 101-26-8);
 37. Sodium bromide (CAS 7647-15-6);
 38. Sodium metal (CAS 7440-23-5);
 39. Tributylamine (CAS 102-82-9);
 40. Triethylamine (CAS 121-44-8); or
 41. Trimethylamine (CAS 75-50-3).
- b. In concentrations of 90 % weight or greater, as follows:
1. Acetone (CAS 67-64-1);
 2. Acetylene (CAS 74-86-2);
 3. Ammonia (CAS 7664-41-7);
 4. Antimony (CAS 7440-36-0);
 5. Benzaldehyde (CAS 100-52-7);
 6. Benzoin (CAS 119-53-9);
 7. 1-Butanol (CAS 71-36-3);
 8. 2-Butanol (CAS 78-92-2);

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9. Iso-Butanol (CAS 78-83-1);
10. Tert-Butanol (CAS 75-65-0);
11. Calcium carbide (CAS 75-20-7);
12. Carbon monoxide (CAS 630-08-0);
13. Chlorine (CAS 7782-50-5);
14. Cyclohexanol (CAS 108-93-0);
15. Dicyclohexylamine (CAS 101-83-7);
16. Ethanol (CAS 64-17-5);
17. Ethylene (CAS 74-85-1);
18. Ethylene oxide (CAS 75-21-8);
19. Fluoroapatite (CAS 1306-05-4);
20. Hydrogen chloride (CAS 7647-01-0);
21. Hydrogen sulfide (CAS 7783-06-4);
22. Mandelic acid (CAS 90-64-2);
23. Methanol (CAS 67-56-1);
24. Methyl chloride (CAS 74-87-3);
25. Methyl iodide (CAS 74-88-4);
26. Methyl mercaptan (CAS 74-93-1);
27. Monoethyleneglycol (CAS 107-21-1);
28. Oxalyl chloride (CAS 79-37-8);
29. Potassium sulphide (CAS 1312-73-8);
30. Potassium thiocyanate (CAS 333-20-0);
31. Sodium hypochlorite (CAS 7681-52-9);
32. Sulphur (CAS 7704-34-9);
33. Sulphur dioxide (CAS 7446-09-5);
34. Sulphur trioxide (CAS 7446-11-9);
35. Thiophosphoryl chloride (CAS 3982-91-0);
36. Tri-isobutyl phosphite (CAS 1606-96-8);
37. White phosphorus (CAS 12185-10-3);
38. Yellow phosphorus (CAS 7723-14-0);
39. Mercury (CAS 7439-97-6);
40. Barium chloride (CAS 10361-37-2);

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41. Sulphuric acid (CAS 7664-93-9);
42. 3,3-dimethyl-1-butene (CAS 558-37-2);
43. 2,2-dimethylpropanal (CAS 630-19-3);
44. 2,2-dimethylpropylchloride (CAS 753-89-9);
45. 2-methylbutene (CAS 26760-64-5);
46. 2-chloro-3-methylbutane (CAS 631-65-2);
47. 2,3-dimethyl-2,3-butanediol (CAS 76-09-5);
48. 2-methyl-2-butene (CAS 513-35-9);
49. Butyl lithium (CAS 109-72-8);
50. Bromo(methyl)magnesium (CAS 75-16-1);
51. Formaldehyde (CAS 50-00-0);
52. Diethanolamine (CAS 111-42-2);
53. Dimethylcarbonate (CAS 616-38-6);
54. Methyldiethanolamine hydrochloride (CAS 54060-15-0);
55. Diethylamine hydrochloride (CAS 660-68-4);
56. Diisopropylamine hydrochloride (CAS 819-79-4);
57. 3-Quinuclidinone hydrochloride (CAS 1193-65-3);
58. 3-Quinuclidinol hydrochloride (CAS 6238-13-7);
59. (R)-3- Quinuclidinol hydrochloride (CAS 42437-96-7);
60. N,N-Diethylaminoethanol hydrochloride (CAS 14426-20-1);
61. Dialkyl(\leq C10) chlorophosphates;
62. Dialkyl(\leq C10) fluorophosphates;
63. N,N-Methylisopropylacetamidine (CAS 1339185-57-7);
64. N,N-Methylethylacetamidine (CAS 1339632-40-4);
65. N,N-Ethylisopropylacetamidine(CAS 1339156-10-3);
66. N,N-Methylpropylacetamidine(CAS 1344238-28-3);
67. N,N-Ethylpropylacetamidine(CAS 1339737-43-7);
68. N,N-Isopropylpropylacetamidine(CAS 1341389-98-7);
69. N,N-Methylethylpropanamidine (CAS 1339424-26-8);

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70. N,N-Ethylisopropylpropanamidine (CAS 1344354-09-1);
71. N,N-Methylpropylpropanamidine (CAS 1340216-25-2);
72. N,N-Ethylpropylpropanamidine (CAS 1341493-60-4);
73. N,N-Isopropylpropylpropanamidine (CAS 1343225-93-3);
74. N,N-Methylisopropylpropanamidine (CAS 1339042-55-5);
75. N,N-Methylethylbutanamidine (CAS 1341049-51-1);
76. N,N-Methylpropylbutanamidine (CAS 1343721-02-7);
77. N,N-Ethylpropylbutanamidine (CAS 1343806-12-1);
78. N,N-Isopropylpropylbutanamidine (CAS 1343316-02-8);
79. N,N-Methylisopropylbutanamidine (CAS 1340219-94-4);
80. N,N-Ethylisopropylbutanamidine (CAS 1342204-10-7);
81. N,N-Methylethylisobutanamidine (CAS 1342365-47-2);
82. N,N-Ethylpropylisobutanamidine (CAS 1342566-58-8);
83. N,N-Methylpropylisobutanamidine (CAS 1342270-21-6);
84. N,N-Isopropylpropylisobutanamidine (CAS 1342156-11-9);
85. N,N-Methylisopropylisobutanamidine (CAS 1341992-96-8);
86. N,N-Ethylisopropylisobutanamidine (CAS 1339048-76-8);
87. N,N-Dimethylacetamidine hydrobromide (CAS 1801188-12-4);
88. N,N-Dimethylacetamidine hydrochloride (CAS 2909-15-1);
89. N,N-Diethylacetamidine hydrochloride (CAS 91400-32-7);
90. N,N-Diethylacetamidine hydrobromide (CAS 78053-54-0);
91. N,N-Dimethylpropanamidine dihydrochloride (CAS 79972-73-9); or
92. N,N-Dimethylpropanamidine hydrochloride (CAS 56776-15-9).

X.C.IX.002 Fentanyl and its derivatives Alfentanil, Sufentanil, Remifentanil, Carfentanil, and salts thereof.

Note: X.C.IX.002 does not control products identified as consumer goods packaged for retail sale for personal use or packaged for individual use.

X.C.IX.003 Chemical precursors to Central Nervous System Acting Chemicals, as follows:

- a. 4-anilino-N-phenethylpiperidine (CAS 21409-26-7); or

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- b. N-phenethyl-4-piperidone (CAS 39742-60-4).

Notes:

1. *X.C.IX.003 does not control 'chemical mixtures' containing one or more of the chemicals specified in entry X.C.IX.003 in which no individually specified chemical constitutes more than 1 % by the weight of the mixture.*
2. *X.C.IX.003 does not control products identified as consumer goods packaged for retail sale for personal use or packaged for individual use.*

X.C.IX.004 Fibrous and filamentary materials, not controlled by 1C010 or 1C210 ⁽¹⁾, for use in 'composite' structures and with a specific modulus of $3,18 \times 10^6$ m or greater and a specific tensile strength of $7,62 \times 10^4$ m or greater.

X.C.IX.005 'Vaccines', 'immunotoxins', 'medical products', 'diagnostic and food testing kits', as follows (see List of Items controlled):

- a. 'Vaccines' containing, or designed for use against, items controlled by 1C351, 1C353 or 1C354;
- b. 'Immunotoxins' containing items controlled by 1C351.d; or
- c. 'Medical products' that contain any of the following:
 1. 'Toxins' controlled by 1C351.d (except for botulinum toxins controlled by 1C351.d.1, conotoxins controlled by 1C351.d.3, or items controlled for CW reasons under 1C351.d.4 or .d.5); or
 2. Genetically modified organisms or genetic elements controlled by 1C353.a.3 (except for those that contain, or code for, botulinum toxins controlled by 1C351.d.1 or conotoxins controlled by 1C351.d.3);
- d. 'Medical products' not controlled by X.C.IX.005.c that contain any of the following:
 1. Botulinum toxins controlled by 1C351.d.1;
 2. Conotoxins controlled by 1C351.d.3; or
 3. Genetically modified organisms or genetic elements controlled by 1C353.a.3 that contain, or code for, botulinum toxins controlled by 1C351.d.1 or conotoxins controlled by 1C351.d.3; or
- e. 'Diagnostic and food testing kits' containing items controlled by 1C351.d (except for items controlled for CW reasons under 1C351.d.4 or .d.5).

Technical Notes:

1. *'Medical products' are: (1) pharmaceutical formulations designed for testing and human (or veterinary) administration in the treatment of medical conditions, (2) prepackaged for distribution as clinical or medical products, and (3) approved by the European Medicines Agency (EMA) either to be marketed as clinical or medical products or for use as research new drug.*

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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2. *'Diagnostic and food testing kits' are specifically developed, packaged and marketed for diagnostic or public health purposes. Biological toxins in any other configuration, including bulk shipments, or for any other end-uses are controlled by 1C351.*

X.C.IX.006 Commercial charges and devices containing energetic materials, other than those specified in the CML or in Regulation (EU) 2021/821, and nitrogen trifluoride in a gaseous state (see List of Items Controlled):

a. Shaped charges specially designed for oil well operations, utilizing one charge functioning along a single axis, that upon detonation produce a hole, and

1. Contain any formulation of 'controlled materials';

2. Have only a uniform shaped conical liner with an included angle of 90 degrees or less;

3. Contain more than 0,010 kg but less than or equal to 0,090 kg of 'controlled materials'; and

4. Have a diameter not exceeding 114,3 cm;

b. Shaped charges specially designed for oil well operations containing less than or equal to 0,010 kg of 'controlled materials';

c. Detonation cord or shock tubes containing less than or equal to 0,064 kg/m of 'controlled materials';

d. Cartridge power devices, that contain less than or equal to 0,70 kg of 'controlled materials' in the deflagration material;

e. Detonators (electric or nonelectric) and assemblies thereof, that contain less than or equal to 0,01 kg of 'controlled materials';

f. Igniters, that contain less than or equal to 0,01 kg of 'controlled materials';

g. Oil well cartridges, that contain less than or equal to 0,015 kg of controlled 'energetic materials';

h. Commercial cast or pressed boosters containing less than or equal to 1,0 kg of 'controlled materials';

i. Commercial prefabricated slurries and emulsions containing less than or equal to 10,0 kg and less than or equal to 35 % by weight of ML8 'controlled materials';

j. Cutters and severing tools containing less than or equal to 3,5 kg of 'controlled materials';

k. Pyrotechnic devices when designed exclusively for commercial purposes (e.g., theatrical stages, motion picture special effects, and fireworks displays) and containing less than or equal to 3,0 kg of 'controlled materials';

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- l. Other commercial explosive devices and charges not controlled by X.C.IX.006.a through .k containing less than or equal to 1,0 kg of 'controlled materials'; or

Note: X.C.IX.006.l includes automotive safety devices; extinguishing systems; cartridges for riveting guns; explosive charges for agricultural, oil and gas operations, sporting goods, commercial mining, or public works purposes; and delay tubes used in the assembly of commercial explosive devices.

- m. Nitrogen trifluoride (NF₃) in a gaseous state.

Notes:

1. 'Controlled materials' means controlled energetic materials (see 1C011, 1C111, 1C239 or ML8).
2. Nitrogen trifluoride when not in a gaseous state is controlled under ML8.d by the CML.

X.C.IX.007 Mixtures not controlled by 1C350 or 1C450⁽¹⁾ that contain chemicals controlled by 1C350 or 1C450 and medical, analytical, diagnostic, and food testing kits not controlled by 1C350 or 1C450 that contain chemicals controlled by 1C350, as follows (see List of Items Controlled):

- a. Mixtures containing the following concentrations of precursor chemicals controlled by 1C350:
 1. Mixtures containing 10 % or less, by weight, of any single CWC Schedule 2 chemical controlled by 1C350;
 2. Mixtures containing less than 30 %, by weight, of:
 - a. Any single CWC Schedule 3 chemical controlled by 1C350; or
 - b. Any single non-CWC precursor chemical controlled by 1C350;
- b. Mixtures containing the following concentrations of toxic or precursor chemicals controlled by 1C450:
 1. Mixtures containing the following concentrations of CWC Schedule 2 chemicals controlled by 1C450:
 - a. Mixtures containing 1 % or less, by weight, of any single CWC Schedule 2 chemical controlled by 1C450.a.1 and a.2 (i.e., mixtures containing Amiton or PFIB); or
 - b. Mixtures containing 10 % or less, by weight, of any single CWC Schedule 2 chemical controlled by 1C450.b.1, b.2, b.3, b.4, b.5, or b.6;
 2. Mixtures containing less than 30 %, by weight, of any single CWC Schedule 3 chemical controlled by 1C450.a.4, a.5., a.6., a.7, or 1C450.b.8;

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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- c. 'Medical, analytical, diagnostic, and food testing kits' that contain precursor chemicals controlled by 1C350 in an amount not exceeding 300 grams per chemical.

Technical Note:

For the purpose of this entry, 'medical, analytical, diagnostic, and food testing kits' are pre-packaged materials of defined composition that are specifically developed, packaged and marketed for medical, analytical, diagnostic, or public health purposes. Replacement reagents for medical, analytical, diagnostic, and food testing kits described in X.C.IX.007.c are controlled by 1C350 if the reagents contain at least one of the precursor chemicals identified in that entry in concentrations equal to or greater than the control levels for mixtures indicated in 1C350.

X.C.IX.008 Non-fluorinated polymeric substances, not controlled by 1C008 ⁽¹⁾, as follows (see List of Items Controlled):

- a. Polyarylene ether ketones, as follows:
1. Polyether ether ketone (PEEK);
 2. Polyether ketone ketone (PEKK);
 3. Polyether ketone (PEK); or
 4. Polyether ketone ether ketone ketone (PEKEKK);
- b. Not used.

X.C.IX.009 Specific materials, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):

- a. Hardened steel and tungsten carbide precision ball bearings (3 mm or greater diameter);
- b. 304 and 316 stainless steel plate, other than those specified in the CML or in Regulation (EU) 2021/821;
- c. Monel plate;
- d. Tributyl phosphate (CAS 126-73-8);
- e. Nitric acid (CAS 7697-37-2) in concentrations of 20 % weight or greater;
- f. Fluorine (CAS 7782-41-4); or
- g. Alpha-emitting radionuclides, other than those specified in the CML or in Regulation (EU) 2021/821.

X.C.IX.010 Aromatic polyamides (aramids) not controlled by 1C010, 1C210 or X.C.IX.004, presented in any of the following forms (see List of Items Controlled):

- a. Primary forms;

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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- b. Filament yarn or monofilaments;
- c. Filament tows;
- d. Rovings;
- e. Staple or chopped fibres;
- f. Fabrics;
- g. Pulp or flocks.

X.C.IX.011 Nanomaterials as follows (see List of Items Controlled):

- a. Semiconductor nanomaterials;
- b. Composite-based nanomaterials; or
- c. Any of the following carbon-based nanomaterials:
 - 1. Carbon nanotubes;
 - 2. Carbon nanofibres;
 - 3. Fullerenes;
 - 4. Graphenes; or
 - 5. Carbon onions.

Notes: For the purpose of X.C.IX.011, nanomaterial means a material that meets at least one of the following criteria:

- 1. Consists of particles, with one or more external dimensions in the size range 1 – 100 nm for more than 1 % of their number size distribution;
- 2. Has internal or surface structures in one or more dimensions in the size range 1 – 100 nm; or
- 3. Has a specific surface area by volume greater than 60 m²/cm³, excluding materials consisting of particles with a size lower than 1 nm.

X.C.IX.012 Rare-earth metals and compounds, either in organic or inorganic form, including mixtures whether or not intermixed or interalloyed.

Note 1: Rare-earth metals and compounds include Scandium, Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium and Lutetium;

Note 2: For the purpose of the control X.C.IX.012 minerals containing rare-earth metals are excluded;

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Note 3: X.C.IX.012 does not control mixtures in which no individually metal or compound specified in this entry constitutes more than 5 % by the weight of the mixture.

X.C.IX.013 Tungsten, tungsten carbide and alloys, not controlled by 1C117 or 1C226 ⁽¹⁾, containing more than 90 % tungsten by weight.

Note 1: For the purpose of the control X.C.IX.013, wire is excluded

Note 2: For the purpose of the control X.C.IX.013, surgical or medical instruments are excluded.

X.D.IX.001 Specific ‘software’, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):

- a. ‘Software’ specially designed for industrial process control hardware/systems controlled by X.B.IX.001, other than those specified in the CML or in Regulation (EU) 2021/821; or
- b. ‘Software’ specially designed for equipment for the production of structural composites, fibres, prepregs and preforms controlled by X.B.IX.001, other than those specified in the CML or in Regulation (EU) 2021/821.

X.E.IX.001 ‘Technology’ for the ‘development’, ‘production’, or ‘use’ of fibrous and filamentary materials controlled by X.C.IX.004 and X.C.IX.010.

X.E.IX.002 ‘Technology’ for the ‘development’, ‘production’, or ‘use’ of nanomaterials controlled by X.C.IX.011.

Category X – Materials Processing

X.A.X.001 Explosives or detonator detection equipment, both bulk and trace based, consisting of an automated device, or combination of devices for automated decision making to detect the presence of different types of explosives, explosive residue, or detonators; and components, other than those specified in the CML or in Regulation (EU) 2021/821:

- a. Explosives detection equipment for ‘automated decision making’ to detect and identify bulk explosives utilizing, but not limited to, X-ray (e.g., computed tomography, dual energy, or coherent scattering), nuclear (e.g., thermal neutron analysis, pulse fast neutron analysis, pulse fast neutron transmission spectroscopy, and gamma resonance absorption), or electromagnetic techniques (e.g., quadropole resonance and dielectrometry);
- b. Not used;
- c. Detonator detection equipment for automated decision making to detect and identify initiation devices (e.g. detonators, blasting caps) utilizing, but not limited to, X-ray (e.g. dual energy or computed tomography) or electromagnetic techniques.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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Note: Explosives or detonation detection equipment in X.A.X.001 includes equipment for screening people, documents, baggage, other personal effects, cargo and/or mail.

Technical Notes:

1. 'Automated decision making' is the ability of the equipment to detect explosives or detonators at the design or operator-selected level of sensitivity and provide an automated alarm when explosives or detonators at or above the sensitivity level are detected.
2. This entry does not control equipment that depends on operator interpretation of indicators such as inorganic/organic colour mapping of the items(s) being scanned.
3. Explosives and detonators include commercial charges and devices controlled by X.C.VIII.004 and X.C.IX.006 and energetic materials controlled by 1C011, 1C111 and 1C239 ⁽¹⁾.

X.A.X.002 Concealed object detection equipment operating in the frequency range from 30 GHz to 3 000 GHz and having a spatial resolution of 0,1 mrad (milliradian) up to and including 1 mrad (milliradian) at a standoff distance of 100 m; and components, other than those specified in the CML or in Regulation (EU) 2021/821.

Note: Concealed object detection equipment includes but is not limited to equipment for screening people, documents, baggage, other personal effects, cargo and/or mail.

Technical Note:

The range of frequencies span what is generally considered as the millimetre-wave, submillimetre-wave and terahertz frequency regions.

X.A.X.003 Bearings and bearing systems not controlled by 2A001 (see List of Items Controlled):

- a. Ball bearings or Solid ball bearings, having tolerances specified by the manufacturer in accordance with ABEC 7, ABEC 7P, or ABEC 7T or ISO Standard Class 4 or better (or equivalents) and having any of the following characteristics:
 1. Manufactured for use at operating temperatures above 573 K (300 °C) either by using special materials or by special heat treatment; or
 2. With lubricating elements or component modifications that, according to the manufacturer's specifications, are specially designed to enable the bearings to operate at speeds exceeding 2,3 million 'DN';
- b. Solid tapered roller bearings, having tolerances specified by the manufacturer in accordance with ANSI/AFBMA Class 00 (inch) or Class A (metric) or better (or equivalents) and having either of the following characteristics:

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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1. With lubricating elements or component modifications that, according to the manufacturer's specifications, are specially designed to enable the bearings to operate at speeds exceeding 2,3 million 'DN'; or
 2. Manufactured for use at operating temperatures below 219 K (– 54 °C) or above 423 K (150 °C);
- c. Gas-lubricated foil bearing manufactured for use at operating temperatures of 561 K (288 °C) or higher and a unit load capacity exceeding 1 MPa;
- d. Active magnetic bearing systems;
- e. Fabric-lined self-aligning or fabric-lined journal sliding bearings manufactured for use at operating temperatures below 219 K (– 54 °C) or above 423 K (150 °C).

Technical Notes:

1. 'DN' is the product of the bearing bore diameter in mm and the bearing rotational velocity in rpm.
2. Operating temperatures include those temperatures obtained when a gas turbine engine has stopped after operation.

X.A.X.004 Piping, fittings and valves made of, or lined with stainless, copper-nickel alloy or other alloy steel containing 10 % or more nickel and/or chromium:

- a. Pressure tube, pipe, and fittings of 200 mm or more inside diameter, and suitable for operation at pressures of 3,4 MPa or greater;
- b. Pipe valves having all of the following characteristics that are not controlled by 2B350.g ⁽¹⁾:
 1. A pipe size connection of 200 mm or more inside diameter; and
 2. Rated at 10,3 MPa or more.

Notes:

1. See X.D.X.005 for 'software' for items controlled under this entry.
2. See 2E001 ('development'), 2E002 ('production'), and X.E.X.003 ('use') for technology for items controlled under this entry.
3. See related controls 2A226, 2B350 and X.B.X.010.

X.A.X.005 Pumps designed to move molten metals by electromagnetic forces.

Notes:

1. See X.D.X.005 for 'software' for items controlled under this entry.
2. See 2E001 ('development'), 2E002 ('production'), and X.E.X.003 ('use') for 'technology' for items controlled under this entry.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

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3. *Pumps for use in liquid-metal-cooled reactors are controlled by 0A001.*

X.A.X.006 'Portable electric generators' and specially designed components.

Technical Note:

'Portable electric generators' – The generators that are in X.A.X.006 are portable – 2 268 kg or less on wheels or transportable in a 2,5 tonnes truck without a special set up requirement.

X.A.X.007 Specific processing equipment, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):

- a. Bellows sealed valves;
- b. Not used.

X.B.X.001 'Continuous flow reactors' and their 'modular components'.

Technical Notes:

1. *For the purposes of X.B.X.001, 'continuous flow reactors' consist in plug and play systems where reactants are continuously fed into the reactor and the resultant product is collected at the outlet.*
2. *For purposes of X.B.X.001, 'modular components' are fluidic modules, liquid pumps, valves, packed-bed modules, mixer modules, pressure gauges, liquid-liquid separators, etc.*

X.B.X.002 Nucleic acid assemblers and synthesizers not controlled by 2B352.i, which are partly or entirely automated, and designed to generate nucleic acids greater than 50 bases.

X.B.X.003 Automated peptide synthesizers capable to work under controlled atmosphere conditions.

X.B.X.004 Numerical control units for machine tools and 'numerically controlled' machine tools, other than those specified in the CML or in Regulation (EU) 2021/821 (see List of Items Controlled):

- a. 'Numerical control' units for machine tools:
 1. Having four interpolating axes that can be coordinated simultaneously for contouring control; or
 2. Having two or more axes that can be coordinated simultaneously for contouring control and a minimum programmable increment better (less) than 0,001 mm;
 3. 'Numerical control' units for machine tools having two, three or four interpolating axes that can be coordinated simultaneously for contouring control, and capable of receiving directly (on-line) and processing computer-aided-design (CAD) data for internal preparation of machine instructions; or

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- b. Motion control boards specially designed for machine tools and having any of the following characteristics:

1. Interpolation in more than four axes;
2. Capable of real-time processing of data to modify tool path, feed rate and spindle data, during the machining operation, by any of the following:
 - a. Automatic calculation and modification of part program data for machining in two or more axes by means of measuring cycles and access to source data; or
 - b. Adaptive control with more than one physical variable measured and processed by means of a computing model (strategy) to change one or more machining instructions to optimize the process; or
3. Capable of receiving and processing CAD data for internal preparation of machine instructions;

- c. 'Numerically controlled' machine tools that, according to the manufacturer's technical specifications, can be equipped with electronic devices for simultaneous contouring control in two or more axes and that have both of the following characteristics:

1. Two or more axes that can be coordinated simultaneously for contouring control; and
2. Positioning accuracies according to ISO 230/2 (2006), with all compensations available:
 - a. Better than 15 µm along any linear axis (overall positioning) for grinding machines;
 - b. Better than 15 µm along any linear axis (overall positioning) for milling machines; or
 - c. Better than 15 µm along any linear axis (overall positioning) for turning machines; or

- d. Machine tools, as follows, for removing or cutting metals, ceramics or composites, that, according to the manufacturer's technical specifications, can be equipped with electronic devices for simultaneous contouring control in two or more axes:

1. Machine tools for turning, grinding, milling or any combination thereof, having two or more axes that can be coordinated simultaneously for contouring control and having any of the following characteristics:
 - a. One or more contouring 'tilting spindles';

Note: X.B.X.004.d.1.a. applies to machine tools for grinding or milling only.

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- b. 'Camming' (axial displacement) in one revolution of the spindle less (better) than 0,0006 mm total indicator reading (TIR);

Note: X.B.X.004.d.1.b. applies to machine tools for turning only.

- c. 'Run-out' (out-of-true running) in one revolution of the spindle less (better) than 0,0006 mm total indicator reading (TIR); or
- d. The positioning accuracies, with all compensations available, are less (better) than: 0,001° on any rotary axis;

- 2. Electrical discharge machines (EDM) of the wire feed type that have five or more axes that can be coordinated simultaneously for contouring control.

X.B.X.005 Non-'numerically controlled' machine tools for generating optical quality surfaces, (see List of Items Controlled) and specially designed components therefor:

- a. Turning machines using a single point cutting tool and having all of the following characteristics:

- 1. Slide positioning accuracy less (better) than 0,0005 mm per 300 mm of travel;
- 2. Bidirectional slide positioning repeatability less (better) than 0,00025 mm per 300 mm of travel;
- 3. Spindle 'run-out' and 'camming' less (better) than 0,0004 mm total indicator reading (TIR);
- 4. Angular deviation of the slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR, over full travel; and
- 5. Slide perpendicularity less (better) than 0,001 mm per 300 mm of travel;

Technical Note:

The bidirectional slide positioning repeatability (R) of an axis is the maximum value of the repeatability of positioning at any position along or around the axis determined using the procedure and under the conditions specified in part 2.11 of ISO 230/2: 1988.

- b. Fly cutting machines having all of the following characteristics:

- 1. Spindle 'run-out' and 'camming' less (better) than 0,0004 mm TIR; and
- 2. Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR, over full travel.

▼ M25

X.B.X.006 Gearmaking and/or finishing machinery not controlled by 2B003 capable of producing gears to a quality level of better than AGMA 11.

X.B.X.007 Dimensional inspection or measuring systems or equipment not controlled by 2B006 or 2B206, as follows (see List of Items Controlled):

a. Manual dimensional inspection machines, having both of the following characteristics:

1. Two or more axes; and
2. A measurement uncertainty equal to or less (better) than $(3 + L/300) \mu\text{m}$ in any axes (L measured length in mm).

X.B.X.008 'Robots' not controlled by 2B007 or 2B207 that are capable of employing feedback information in real-time processing from one or more sensors to generate or modify programs or to generate or modify numerical program data.

X.B.X.009 Assemblies, circuit boards or inserts specially designed for machine tools controlled by X.B.X.004, or for equipment controlled by X.B.X.006, X.B.X.007 or X.B.X.008:

a. Spindle assemblies, consisting of spindles and bearings as a minimal assembly, with radial ('run-out') or axial ('camming') axis motion in one revolution of the spindle less (better) than 0,0006 mm total indicator reading (TIR);

b. Single point diamond cutting tool inserts, having all of the following characteristics:

1. Flawless and chip-free cutting edge when magnified 400 times in any direction;
2. Cutting radius from 0,1 to 5 mm inclusive; and
3. Cutting radius out-of-roundness less (better) than 0,002 mm TIR.

c. Specially designed printed circuit boards with mounted components capable of upgrading, according to the manufacturer's specifications, 'numerical control' units, machine tools or feed-back devices to or above the levels specified in X.B.X.004, X.B.X.006, X.B.X.007, X.B.X.008, or X.B.X.009.

Technical Note:

This entry does not control measuring interferometer systems, without closed or open loop feedback, containing a laser to measure slide movement errors of machine-tools, dimensional inspection machines or similar equipment.

X.B.X.010 Specific processing equipment, other than those specified in the CML or in Regulation (EU) 2021/821, as follows (see List of Items Controlled):

a. Isostatic presses, other than those specified in the CML or in Regulation (EU) 2021/821;

▼ **M25**

- b. Bellows manufacturing equipment, including hydraulic forming equipment and bellows forming dies;
- c. Laser welding machines;
- d. MIG welders;
- e. E-beam welders;
- f. Monel equipment, including valves, piping, tanks and vessels;
- g. 304 and 316 stainless steel valves, piping, tanks and vessels;

Note: Fittings are considered part of piping for purposes of X.B.X.010.g.

- h. Mining and drilling equipment, as follows:
 - 1. Large boring equipment capable of drilling holes greater than 61 cm in diameter;
 - 2. Large earth-moving equipment used in the mining industry;
- i. Electroplating equipment designed for coating parts with nickel or aluminium;
- j. Pumps designed for industrial service and for use with an electrical motor of 5 HP or greater;
- k. Vacuum valves, piping, flanges, gaskets and related equipment specially designed for use in high-vacuum service, other than those specified in the CML or in Regulation (EU) 2021/821;
- l. Spin forming and flow forming machines, other than those specified in the CML or in Regulation (EU) 2021/821;
- m. Centrifugal multiplane balancing machines, other than those specified in the CML or in Regulation (EU) 2021/821; or
- n. Austenitic stainless steel plate, valves, piping, tanks and vessels.

- X.B.X.011 Floor-mounted fume hoods (walk-in style) with a minimum nominal width of 2,5 metres.
- X.B.X.012 Class II biosafety cabinets and glove boxes.
- X.B.X.013 Batch centrifuges with a rotor capacity of 4 litres or greater, usable with biological materials.
- X.B.X.014 Fermenters with an internal volume of 10–20 litres, usable with biological materials.
- X.B.X.015 Reaction vessels, reactors, agitators, heat exchangers, condensers, pumps (including single seal pumps), valves, storage tanks, containers, receivers, and distillation or absorption columns that meet performance parameters of the control 2B350 ⁽¹⁾, regardless of their materials of construction.

⁽¹⁾ Ref. Annex I to Regulation (EU) 2021/821

▼ **M25**

Note: For the purpose of the control X.B.X.015, plumbing valves and storage tanks with total internal (geometric) volume less than 1 m³ (1 000 litres) designed for domestic water or gas systems are excluded.

- | | |
|-----------|---|
| X.B.X.016 | Conventional or turbulent air-flow clean-air rooms and self-contained fan-HEPA filter units that may be used for P3 or P4 (BSL 3, BSL 4, L3, L4) containment facilities. |
| X.B.X.017 | Vacuum pumps with a manufacturer's specified maximum flow-rate greater than 1 m ³ /h (under standard temperature and pressure conditions), casings (pump bodies), preformed casing-liners, impellers, rotors, and jet pump nozzles designed for such pumps, in which all surfaces that come into direct contact with the chemicals being processed are made from controlled materials. |
| X.B.X.018 | Laboratory equipment, including parts and accessories for such equipment, for the analysis or detection, destructive or non-destructive, of chemical substances. |
| X.B.X.019 | Whole chlor-alkali electrolysis cells – mercury, diaphragm, and membrane. |
| X.B.X.020 | Titanium electrodes (including those with coatings produced from other metal oxides), specially designed for use in chlor-alkali cells. |
| X.B.X.021 | Nickel electrodes (including those with coatings produced from other metal oxides), specially designed for use in chlor-alkali cells. |
| X.B.X.022 | Bipolar titanium nickel electrodes (including those with coatings produced from other metal oxides), specially designed for use in chlor-alkali cells. |
| X.B.X.023 | Asbestos diaphragms specially designed for use in chlor-alkali cells. |
| X.B.X.024 | Fluoropolymer based diaphragms specially designed for use in chlor-alkali cells. |
| X.B.X.025 | Fluoropolymer based ion exchange membranes specially designed for use in chlor-alkali cells. |
| X.B.X.026 | Compressors specially designed to compress wet or dry chlorine, regardless of material of construction. |
| X.B.X.027 | Microwave reactors – Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating. |
| X.D.X.001 | 'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment controlled by X.A.X.001. |
| X.D.X.002 | 'Software' 'required' for the 'development', 'production' or 'use' of concealed object detection equipment controlled by X.A.X.002. |

▼ **M25**

X.D.X.003 'Software' specially designed for the 'development', 'production', or 'use' of equipment controlled by X.B.X.004, X.B.X.006, or X.B.X.007, X.B.X.008, and X.B.X.009.

X.D.X.004 Specific 'software', as follows (see List of Items Controlled):

a. 'Software' to provide adaptive control and having both of the following characteristics:

1. For flexible manufacturing units (FMUs); and
2. Capable of generating or modifying, in real-time processing, programs or data by using the signals obtained simultaneously by means of at least two detection techniques, such as:
 - a. Machine vision (optical ranging);
 - b. Infrared imaging;
 - c. Acoustical imaging (acoustical ranging);
 - d. Tactile measurement;
 - e. Inertial positioning;
 - f. Force measurement; and
 - g. Torque measurement.

Note: X.D.X.004.a does not control 'software' which only provides rescheduling of functionally identical equipment within 'flexible manufacturing units' using pre-stored part programs and a pre-stored strategy for the distribution of the part programs.

b. Not used.

X.D.X.005 'Software' specially designed or modified for the 'development,' 'production,' or 'use' of items controlled by X.A.X.004 or X.A.X.005.

Note: See 2E001 ('development') for 'technology' for 'software' controlled under this entry.

X.D.X.006 'Software' specially designed for the 'development' or 'production' of portable electric generators controlled by X.A.X.006.

X.E.X.001 'Technology' 'required' for the 'development,' 'production' or 'use' of equipment controlled by X.A.X.002 or 'required' for the 'development' of 'software' controlled by X.D.X.002.

Note: See X.A.X.002 and X.D.X.002 for related commodity and 'software' controls.

X.E.X.002 'Technology' for the 'use' of equipment controlled by X.B.X.004, X.B.X.006, X.B.X.007, or X.B.X.008.

X.E.X.003 'Technology' according to the General Technology Note for the 'use' of equipment controlled by X.A.X.004 or X.A.X.005.

X.E.X.004 'Technology' for the 'use' of portable electric generators controlled by X.A.X.006.

▼ **M25**

Part B

1. Semiconductor devices

CN Code	Description
8541 10	Diodes, other than photosensitive or light-emitting diodes (LED)
8541 21	Transistors, other than photosensitive transistors with a dissipation rate of less than 1 W
8541 29	Other transistors, other than photosensitive transistors
8541 30	Thyristors, diacs and triacs (excl. photosensitive semiconductor devices)
8541 49	Photosensitive semiconductor devices (excl. Photovoltaic generators and cells)
8541 51	Other semiconductor devices: Semiconductor-based transducers
8541 59	Other semiconductor devices
8541 60	Mounted piezo-electric crystals
8541 90	Semiconductor devices: Parts

2. Electronic integrated circuits, manufacturing and testing equipment

CN Code	Description
3818 00	Chemical elements doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics
8486 10	Machines and apparatus for the manufacture of boules or wafers
8486 20	Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits
8486 40	Machines and apparatus specified in note 11(C) to this chapter
8534 00	Printed circuits
8537 10	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 8517, for a voltage not exceeding 1 000 V
8542 31	Processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits
8542 32	Memories
8542 33	Amplifiers
8542 39	Other Electronic Integrated Circuits
8542 90	Electronic integrated circuits: Parts

▼ **M25**

CN Code	Description
8543 20	Signal generators
9027 50	Other instruments and apparatus using optical radiation (UV, visible, IR)
9030 20	Oscilloscopes and oscillographs
9030 32	Multimeters with recording device
9030 39	Instruments and apparatus for measuring or checking voltage, current, resistance or electrical power, with recording device
9030 82	Instruments and apparatus for measuring or checking semiconductor wafers or devices

3. Photographic cameras and optical components

CN Code	Description
8525 89	Other television cameras, digital cameras and video camera recorders
8529 90	Other parts suitable for use solely or principally with the apparatus of headings 8524 to 8528
9006 30	Cameras specially designed for underwater use, for aerial survey or for medical or surgical examination of internal organs; comparison cameras for forensic or criminological purposes
9013 10	Telescopic sights for fitting to arms; periscopes; telescopes designed to form parts of machines, appliances, instruments or apparatus of this chapter or Section XVI
9013 80	Other optical devices, appliances and instruments
9025 19	Other thermometers and pyrometers, not combined with other instruments

4. Other electrical/magnetic components

CN Code	Description
8505 11	Permanent magnets and articles intended to become permanent magnets after magnetisation; of metal
8529 10	Aerials and aerial reflectors of all kinds; parts suitable for use therewith
8532 21	Other fixed capacitors of tantalum
8532 24	Ceramic dielectric multilayer capacitors
8536 41	Relays, for a voltage not exceeding 60 V
8536 50	Other switches
8536 69	Plugs and sockets

▼ **M25**

CN Code	Description
8536 90	Other apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp holders and other connectors, junction boxes), for a voltage not exceeding 1 000 V; connectors for optical fibres, optical fibre bundles or cables
8548 00	Electrical parts of machinery or apparatus, not specified or included elsewhere in Chapter 85

5. Machines for additive manufacturing

CN Code	Description
8485 20	Machines for additive manufacturing by plastics or rubber deposit
8485 30	Machines for additive manufacturing by plaster, cement, ceramics or glass deposit
8485 90	Parts of machines for additive manufacturing

6. Energetic materials and precursors

CN Code	Description
4706 10	Pulps of fibres derived from recovered (waste and scrap) paper or paperboard or of other fibrous cellulosic material: Cotton linters pulp

7. Electronic devices, modules and assemblies

CN Code	Description
8471 50	Processing units other than those of subheading 8471 41 or 8471 49, whether or not containing in the same housing one or two of the following types of unit: storage units, input units, output units
8471 80	Units for automatic data-processing machines (excl. processing units, input or output units and storage units)
8471 70 98	Other storage units
8517 62	Machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus
8517 69	Other apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network
8526 91	Radio navigational aid apparatus
9014 20	Instruments and appliances for aeronautical or space navigation (other than compasses)
9014 80	Other navigational instruments and appliances

▼ **M24**

ANNEX VIII

**List of partner countries referred to in Articles 2(4), 2a(4), 2d(4), 3h(3),
3k(4) and 5n(7)**

THE UNITED STATES OF AMERICA

JAPAN

UNITED KINGDOM

SOUTH KOREA

AUSTRALIA

CANADA

NEW ZEALAND

NORWAY

▼ **M25**

SWITZERLAND

▼ **M16***ANNEX IX***A. Model for supply, transfer or export notification, application and authorisation forms**

(referred to in Article 2c of this Regulation)

The export authorisation is valid in all Member States of the European Union until its expiry date.

EUROPEAN UNION**EXPORT AUTHORISATION / NOTIFICATION**

(Reg. (EU) 2022/328)

<p>If notifying pursuant to Article 2(3) or 2a(3) of Council Regulation (EU) No 833/2014, indicate what point(s) applies/apply:</p> <p><input type="checkbox"/> (a) humanitarian purposes, health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment or as a response to natural disasters;</p> <p><input type="checkbox"/> (b) medical or pharmaceutical purposes;</p> <p><input type="checkbox"/> (c) temporary export of items for use by news media;</p> <p><input type="checkbox"/> (d) software updates;</p> <p><input type="checkbox"/> (e) use as consumer communication devices;</p> <p><input type="checkbox"/> (f) personal use of natural persons travelling to Russia or members of their immediate families travelling with them, and limited to personal effects, household effects, vehicles or tools of trade owned by the individuals and not intended for sale</p>	<p>For authorisations, indicate if this has been requested pursuant to Article 2(4), 2(5), 2a(4), 2a(5) or 2b(1) of Council Regulation (EU) No 833/2014:</p>
	<p>For authorisations pursuant to Article 2(4) or 2a(4) of Council Regulation (EU) No 833/2014, indicate what point(s) applies/apply:</p> <p><input type="checkbox"/> (a) intended for cooperation between the Union, the governments of Member States and the government of Russia in purely civilian matters;</p> <p><input type="checkbox"/> (b) intended for intergovernmental cooperation in space programmes;</p> <p><input type="checkbox"/> (c) intended for the operation, maintenance, fuel retreatment and safety of civil nuclear capabilities, as well as civil nuclear cooperation, notably in the field of research and development;</p> <p><input type="checkbox"/> (d) intended for maritime safety;</p> <p><input type="checkbox"/> (e) intended for civilian non-publicly available electronic communications networks which are not the property of an entity that is publicly controlled or with over 50 % public ownership;</p> <p><input type="checkbox"/> (f) intended for the exclusive use of entities owned, or solely or jointly controlled by a legal person, entity or body which is incorporated or constituted under the law of a Member State or of a partner country;</p> <p><input type="checkbox"/> (g) for the diplomatic representations of the Union, Member States and partner countries, including delegations, embassies and missions;</p> <p><input type="checkbox"/> (h) ensuring cyber-security and information security for natural and legal persons, entities and bodies in Russia except for its government and undertakings directly or indirectly controlled by that government.</p>
	<p>For authorisations pursuant to Article 2b(1) of Council Regulation (EU) No 833/2014, indicate what point applies:</p> <p><input type="checkbox"/> (a) urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment;</p> <p><input type="checkbox"/> (b) contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such a contract, provided that the authorisation is requested before 1 May 2022.</p>

▼ **M16**

1	1. Exporter	2. Identification number	3. Expiry date (if applicable)
		4. Contact point details	
		6. Issuing authority	
	5. Consignee		
	7. Agent/Representative (if different from exporter)		
		8. Country of consignment	Code ¹
	9. End user (if different from consignee)	10. Member State of current or future location of the items	Code ²
		11. Member State of intended entry into the customs export procedure	Code ²
		12. Country of final destination	Code ²
		Confirm that the end user is non military	Yes/No
1			

¹ See Regulation (EC) No 1172/95 (OJ L 118, 25.5.1995, p. 10).

▼ **M16**

	13. Description of the items ¹			14. Country of origin		Code ²
				15. Harmonised System or Combined Nomenclature Code (if applicable with 8 digit; CAS number if available)		16. Control list no (for listed items)
				17. Currency and Value		18. Quantity of the items
	19. End use	Confirm that the end use is non military	Yes/No	20. Contract date (if applicable)	21. Customs export procedure	
	22. Additional information:					
Available for pre-printed information At discretion of Member States						
			For completion by issuing authority Stamp Signature Issuing Authority			
			Date			

¹ If needed, this description may be given in one or more attachments to this form (1bis). In this case, indicate the exact number of attachments in this box. The description should be as precise as possible and integrate, where relevant, the CAS or other references for chemical items in particular.

▼ **M16**

EUROPEAN UNION

(Reg. (EU) 2022/328)

1 Bis	1. Exporter	2. Identification number	
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code (if applicable with 8 digit; CAS number if available)	16. Control list no (for listed items)
		17. Currency and Value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code (if applicable with 8 digit; CAS number if available)	16. Control list no (for listed items)
		17. Currency and Value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code ²
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items

▼ M16

Note: In part 1 of column 24, write the quantity still available and in part 2 of column 24, write the quantity deducted on this occasion.			
23. Net quantity/value (Net mass/other unit with indication of unit)		26. Customs document (Type and number) or extract (Nr) and date of deduction	27. Member state, name and signature, stamp of deduction
24. In numbers	25. In words for quantity/value deducted		
1.			
2.			
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2.			
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2.			
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2.			
1.			
2.			

▼ **M16**

A. Model for brokering services/ technical assistance notification, application and authorisation forms
(referred to in Article 2C of this Regulation)

EUROPEAN UNION

PROVISION OF TECHNICAL ASSISTANCE

(Reg. (EU) 2022/328)

<p>If notifying pursuant to Article 2(3) or 2a(3) of Council Regulation (EU) No 833/2014, indicate what point(s) applies/apply:</p> <p><input type="checkbox"/> (a) humanitarian purposes, health emergencies, the urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment or as a response to natural disasters;</p> <p><input type="checkbox"/> (b) medical or pharmaceutical purposes;</p> <p><input type="checkbox"/> (c) temporary export of items for use by news media;</p> <p><input type="checkbox"/> (d) software updates;</p> <p><input type="checkbox"/> (e) use as consumer communication devices;</p> <p><input type="checkbox"/> (f) personal use of natural persons travelling to Russia or members of their immediate families travelling with them, and limited to personal effects, household effects, vehicles or tools of trade owned by the individuals and not intended for sale.</p>	<p>For authorisations, indicate if this has been requested pursuant to Article 2(4), 2(5), 2a(4), 2a(5) or 2b(1) of Council Regulation (EU) No 833/2014:</p>
	<p>For authorisations pursuant to Article 2(4) or 2a(4) of Council Regulation (EU) No 833/2014, indicate what point(s) applies/apply:</p> <p><input type="checkbox"/> (a) intended for cooperation between the Union, the governments of Member States and the government of Russia in purely civilian matters;</p> <p><input type="checkbox"/> (b) intended for intergovernmental cooperation in space programmes;</p> <p><input type="checkbox"/> (c) intended for the operation, maintenance, fuel retreatment and safety of civil nuclear capabilities, as well as civil nuclear cooperation, notably in the field of research and development;</p> <p><input type="checkbox"/> (d) intended for maritime safety;</p> <p><input type="checkbox"/> (e) intended for civilian non-publicly available electronic communications networks which are not the property of an entity that is publicly controlled or with over 50 % public ownership;</p> <p><input type="checkbox"/> (f) intended for the exclusive use of entities owned, or solely or jointly controlled by a legal person, entity or body which is incorporated or constituted under the law of a Member State or of a partner country;</p> <p><input type="checkbox"/> (g) for the diplomatic representations of the Union, Member States and partner countries, including delegations, embassies and missions;</p> <p><input type="checkbox"/> (h) ensuring cyber-security and information security for natural and legal persons, entities and bodies in Russia except for its government and undertakings directly or indirectly controlled by that government.</p>
	<p>For authorisations pursuant to Article 2b(1) of Regulation Council (EU) No 833/2014, indicate what point applies:</p> <p><input type="checkbox"/> (a) urgent prevention or mitigation of an event likely to have a serious and significant impact on human health and safety or the environment;</p> <p><input type="checkbox"/> (b) contracts concluded before 26 February 2022, or ancillary contracts necessary for the execution of such a contract, provided that the authorisation is requested before 1 May 2022.</p>

▼ **M16**

1	1. Broker/ Supplier of technical assistance/ Applicant	2. Identification number	3. Expiry date (if applicable)
		4. Contact point details	
	5. Exporter in originating third country (if applicable)	6. Issuing authority	
	7. Consignee		
		8. Member State in which the broker / supplier of technical assistance is resident or established	Code ¹
		9. Originating country/ Country of location of the items subject of brokering services	Code ¹
	10. End user in third country of destination (if different from consignee)	11. Country of destination	Code ¹
		12. Third parties involved, e.g. agents (if applicable)	
1		Confirm that the end user is non military	Yes/No

¹ See Regulation (EC) No 1172/95 (OJ L 118, 25.5.1995, p. 10).

▼ **M16**

	13. Description of the items / technical assistance.		14. Harmonised System or Combined Nomenclature Code (if applicable)	15. Control list no (if applicable)
			16. Currency and Value	17. Quantity of the items (if applicable)
	18. End use	Confirm that the end use is non military		Yes/No
	19. Additional information:			
	Available for pre-printed information At discretion of Member States			
		For completion by issuing authority Signature _____ Stamp _____ Issuing Authority _____		
		Date _____		

▼ M20**C. Model for sale, supply or transfer notification, application and authorisation forms**

(referred to in Article 12b(1) of this Regulation)

The export authorisation is valid in all Member States of the European Union until its expiry date.

EUROPEAN UNION

EXPORT AUTHORISATION / NOTIFICATION

(Reg. (EU) 2022/328)

Notification pursuant to Article 12b(1) Regulation (EU) 833/2014			
1	1. Exporter	2. Identification number	3. Expiry date (if applicable)
		4. Contact point details	
	5. Consignee	6. Issuing authority	
	7. Agent/Representative (if different from exporter)		
	1	9. End user (if different from consignee)	8. Country of consignment
10. Member State of current or future location of the items			Code
11. Member State of intended entry into the customs export procedure			Code
1		12. Country of final destination	Code
		Confirm that the end user is non military	Yes/No

¹ See Regulation (EC) No 1172/95 (OJ L 118, 25.5.1995, p. 10).

▼ **M20**

13. Description of the items ¹			14. Country of origin		Code
			15. Harmonised System or Combined Nomenclature Code (if applicable with 8 digit; CAS number if available)		16. Control list no (for listed items)
			17. Currency and Value		18. Quantity of the items
19. End use	Confirm that the end use is non military	Yes/No	20. Contract date (if applicable)	21. Customs export procedure	
22. Additional information:					
Available for pre-printed information					
At discretion of Member States					
			For completion by		
			issuing authority		
			Signature		
			Stamp		
			Issuing Authority		
			Date		

1

If needed, this description may be given in one or more attachments to this form (1bis). In this case, indicate the exact number of attachments in this box. The description should be as precise as possible and integrate, where relevant, the CAS or other references for chemical items in particular.

▼ **M20**

EUROPEAN UNION

(Reg. (EU) 2022/328)

1 Bis	1. Exporter	2. Identification number	
	13. Description of the items	14. Country of origin	Code
		15. Commodity code (if applicable with 8 digit; CAS number if available)	16. Control list no (for listed items)
		17. Currency and Value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code
		15. Commodity code (if applicable with 8 digit; CAS number if available)	16. Control list no (for listed items)
17. Currency and Value		18. Quantity of the items	
	13. Description of the items	14. Country of origin	Code
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items
	13. Description of the items	14. Country of origin	Code
		15. Commodity code	16. Control list no
		17. Currency and value	18. Quantity of the items

▼ M20

Note: In part 1 of column 24, write the quantity still available and in part 2 of column 24, write the quantity deducted on this occasion.			
23. Net quantity/value (Net mass/other unit with indication of unit)		26. Customs document (Type and number) or extract (Nr) and date of deduction	27. Member state, name and signature, stamp of deduction
24. In numbers	25. In words for quantity/value deducted		
1.			
2.			
1.			
2.			
1.			
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1.			
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1.			
2.			

▼ **M16**

ANNEX X

List of goods and technologies referred to in Article 3b(1)

	CN	Product
ex	8414 10 81	Cryogenic pumps in the LNG-process
ex	8418 69 00	Process units for gas cooling in the LNG-process
ex	8419 40 00	Atmospheric-vacuum crude distillation units (CDU)
ex	8419 40 00	Process units for the separation and fractionation of the hydrocarbons in the LNG-process
ex	8419 50 20, 8419 50 80	Cold boxes in the LNG-process
ex	8419 50 20, 8419 50 80	Cryogenic exchangers in the LNG-process
ex	8419 60 00	Process units for the liquefaction of the natural gas
ex	8419 60 00, 8419 89 98, 8421 39 15, 8421 39 25, 8421 39 35, 8421 39 85	Hydrogen recovery and purification technology
ex	8419 60 00, 8419 89 98, 8421 39 35, 8421 39 85	Refinery fuel gas treatment and sulphur recovery technology (including amine scrubbing units, sulphur recovery units, tail gas treatment units)
ex	8419 89 10	Cooling towers and similar plant for direct cooling (without a separating wall) by means of recirculated water, designed to be used with the technology listed in this Annex.
ex	8419 89 98	Alkylation and isomerization units
ex	8419 89 98	Aromatic hydrocarbon production units
ex	8419 89 98	Catalytic reforming / cracker units
ex	8419 89 98	Delayed cokers
ex	8419 89 98	Flexicoking units
ex	8419 89 98	Hydrocracking reactors
ex	8419 89 98	Hydrocracking reactor vessels
ex	8419 89 98	Hydrogen generation technology
ex	8419 89 98	Hydrotreatment technology/units
ex	8419 89 98	Naphtha isomerisation units
ex	8419 89 98	Polymerisation units
ex	8419 89 98	Sulphur production units
ex	8419 89 98	Sulphuric acid alkylation and sulphuric acid regeneration units
ex	8419 89 98	Thermal cracking units
ex	8419 89 98	[Toluene and heavy aromatics] Transalkylation units
ex	8419 89 98	Visbreakers
ex	8419 89 98	Vacuum gas oil hydrocracking units
ex	8479 89 97	Solvent de-asphalting units

▼ **M20***ANNEX XI***List of goods and technologies referred to in Article 3c(1)**

Part A

CN Code	Description
88	Aircraft, spacecraft, and parts thereof

List of goods and technologies referred to in Article 3c(1)

Part B

CN Code	Description
ex 2710 19 83	Hydraulic oils for the usage in vehicles of Chapter 88
ex 2710 19 99	Other lubricating oils and other oils for use in aviation
4011 30 00	New pneumatic tyres of rubber, of a kind used on aircraft
ex 6813 20 00	Brake discs and pads for use on aircraft
6813 81 00	Brake linings and pads
8517 71 00	Aerials and aerial reflectors of all kinds; parts suitable for use therewith
ex 8517 79 00	Other parts related to aerials
9024 10 00	Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials: Machines and appliances for testing metals
9026 00 00	Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 9014, 9015, 9028 or 9032

List of goods and technologies referred to in Article 3c(1)

Part C

CN Code	Description
8407 10	Spark-ignition reciprocating or rotary internal combustion piston engine, for aircraft
8409 10	Parts suitable for use solely or principally with internal combustion piston engine for aircraft

▼ M24**List of goods and technologies referred to in Article 3c(1)**

Part D

CN Code	Description
8411 11	turbojets of a thrust \leq 25 kn
8411 12	turbojets of a thrust $>$ 25 kn
8411 21	turbopropellers of a power \leq 1 100 kw
8411 22	turbopropellers of a power $>$ 1 100 kw
8411 91	parts of turbojets or turbopropellers, n.e.s.

▼ M7

ANNEX XII

▼ M15

List of legal persons, entities and bodies referred to in Article 5(2)

▼ M7

Alfa Bank;
Bank Otkritie;
Bank Rossiya; and
Promsvyazbank

▼ M7*ANNEX XIII***List of legal persons, entities and bodies referred to in Article 5(4)(a)**

Almaz-Antey;

Kamaz;

Novorossiysk Commercial Sea Port;

Rostec (Russian Technologies State Corporation);

Russian Railways;

JSC PO Sevmash;

Sovcomflot; and

United Shipbuilding Corporation

▼ M11

Russian Maritime Register of Shipping

▼ **M15***ANNEX XIV***List of legal persons, entities and bodies referred to in article 5h**

Name of the legal person, entity or body	Date of application
Bank Otkritie	12 March 2022
Novikombank	12 March 2022
Promsvyazbank	12 March 2022
Bank Rossiya	12 March 2022
Sovcombank	12 March 2022
VNESHECONOMBANK (VEB)	12 March 2022
VTB BANK	12 March 2022
Sberbank	14 June 2022
Credit Bank of Moscow	14 June 2022
Joint Stock Company Russian Agricultural Bank, JSC Rosselkhozbank	14 June 2022

▼ M10*ANNEX XV***List of legal persons, entities or bodies referred to in article 2f**

RT- Russia Today English
RT- Russia Today UK
RT - Russia Today Germany
RT - Russia Today France
RT- Russia Today Spanish
Sputnik

▼ M15

Rossiia RTR / RTR Planeta
Rossiya 24 / Russia 24
TV Centre International

▼ M20

NTV/NTV Mir
Rossiya 1
REN TV
Pervyi Kanal

▼ M24

RT Arabic
Sputnik Arabic

▼ M11*ANNEX XVI***List of goods and technology referred to in article 3f**

Category VI – Marine

X.A.VI.001 Vessels, marine systems or equipment, and specially designed components therefor, components and accessories:

- (a) Equipment contained in chapter 4 (navigation equipment) of the applicable Commission Implementing Regulation on design, construction and performance requirements and testing standards for marine equipment adopted in accordance with Article 35(2) of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment;
- (b) Equipment contained in chapter 5 (radio-communication equipment) of the applicable Commission Implementing Regulation on design, construction and performance requirements and testing standards for marine equipment adopted in accordance with Article 35(2) of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment;

▼ **M25***ANNEX XVII***List of iron and steel products referred to in Article 3g**

CN Code	Description
7206	iron and non-alloy steel in ingots or other primary forms (excl. remelting scrap ingots, products obtained by continuous casting and iron of heading 7203)
7207	semi-finished products of iron or non-alloy steel
7208	flat-rolled products of iron or non-alloy steel, of a width \geq 600 mm, hot-rolled, not clad, plated or coated
7209	flat-rolled products of iron or non-alloy steel, of a width of \geq 600 mm, cold-rolled 'cold-reduced', not clad, plated or coated
7210	flat-rolled products of iron or non-alloy steel, of a width \geq 600 mm, hot-rolled or cold-rolled 'cold-reduced', clad, plated or coated
7211	flat-rolled products of iron or non-alloy steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced', not clad, plated or coated
7212	flat-rolled products of iron or non-alloy steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced', clad, plated or coated
7213	bars and rods of iron or non-alloy steel, hot-rolled, in irregularly wound coils
7214	bars and rods, of iron or non-alloy steel, not further worked than forged, hot-rolled, hot-drawn or hot-extruded, but incl. those twisted after rolling (excl. in irregularly wound coils)
7215	bars and rods, of iron or non-alloy steel, cold-formed or cold-finished, whether or not further worked, or hot-formed and further worked, n.e.s.
7216	angles, shapes and sections of iron or non-alloy steel, n.e.s.
7217	wire of iron or non-alloy steel, in coils (excl. bars and rods)
7218	stainless steel in ingots or other primary forms; semi-finished products of stainless steel
7219	flat-rolled products of stainless steel, of a width of \geq 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7220	flat-rolled products of stainless steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7221	bars and rods of stainless steel, hot-rolled, in irregularly wound coils
7222	other bars and rods of stainless steel; angles, shapes and sections of stainless steel, n.e.s.

▼ **M25**

CN Code	Description
7223	wire of stainless steel, in coils (excl. bars and rods)
7224	steel, alloy, other than stainless, in ingots or other primary forms, semi-finished products of alloy steel other than stainless
7225	flat-rolled products of alloy steel other than stainless, of a width of ≥ 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7226	flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7227	bars and rods of alloy steel other than stainless, hot-rolled, in irregularly wound coils
7228	other bars and rods of alloy steel other than stainless, angles, shapes and sections of alloy steel other than stainless, n.e.s.; hollow drill bars and rods, of alloy or non-alloy steel
7229	wire of alloy steel other than stainless, in coils (excl. bars and rods)
7301	sheet piling of iron or steel, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel
7302	railway or tramway track construction material of iron or steel, the following: rails, check-rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers 'cross-ties', fish-plates, chairs, chair wedges, sole plates 'base plates', rail clips, bedplates, ties and other material specialised for jointing or fixing rails
7303	tubes, pipes and hollow profiles, of cast iron
7304	tubes, pipes and hollow profiles, seamless, of iron or steel (excl. products of cast iron)
7305	tubes and pipes, having circular cross-sections and an external diameter of $> 406,4$ mm, of flat-rolled products of iron or steel 'e.g., welded, riveted or similarly closed'
7306	tubes, pipes and hollow profiles 'e.g., open seam or welded, riveted or similarly closed', of iron or steel (excl. of cast iron, seamless tubes and pipes and tubes having internal and external circular cross-sections and an external diameter of $> 406,4$ mm)
7307	tube or pipe fittings 'e.g. couplings, elbows, sleeves', of iron or steel
7308	structures and parts of structures 'e.g., bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns', of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel (excl. prefabricated buildings of heading 9406)

▼ M25

CN Code	Description
7309	reservoirs, tanks, vats and similar containers, of iron or steel, for any material 'other than compressed or liquefied gas', of a capacity of > 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated (excl. containers specifically constructed or equipped for one or more types of transport)
7310	tanks, casks, drums, cans, boxes and similar containers, of iron or steel, for any material 'other than compressed or liquefied gas', of a capacity of ≤ 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated, n.e.s.
7311	containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)
7312	stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel (excl. electrically insulated products and twisted fencing wire and barbed wire)
7313	barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not, and loosely twisted double wire, of a kind used for fencing, of iron or steel
7314	cloth, incl. endless bands, grill, netting and fencing, of iron or steel wire, expanded metal of iron or steel (excl. woven products of metal fibres of a kind used for cladding, lining or similar purposes)
7315	chain and parts thereof, of iron or steel (excl. watch chains, necklace chains and the like, cutting and saw chain, skid chain, scraper chain for conveyors, toothed chain for textile machinery and the like, safety devices with chains for securing doors, measuring chains)
7316	anchors, grapnels and parts thereof, of iron or steel
7317	nails, tacks, drawing pins, corrugated nails, staples and similar articles of iron or steel, whether or not with heads of other material (excl. such articles with heads of copper and staples in strips)
7318	screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter pins, washers, incl. spring washers, and similar articles, of iron or steel (excl. lag screws, stoppers, plugs and the like, threaded)
7319	sewing needles, knitting needles, bodkins, crochet hooks, embroidery stiletos and similar articles, for use in the hand, of iron or steel; safety pins and other pins of iron or steel, n.e.s.
7320	springs and leaves for springs, of iron or steel (excl. clock and watch springs, springs for sticks and handles of umbrellas or parasols, shock absorbers and torque rod or torsion bar springs of section 17)

▼ **M25**

CN Code	Description
7321	stoves, ranges, grates, cookers, incl. those with subsidiary boilers for central heating, barbecues, braziers, gas rings, plate warmers and similar non-electric domestic appliances, and parts thereof of iron or steel (excl. boilers and radiators for central heating, geysers and hot water cylinders)
7322	radiators for central heating, not-electrically heated, and parts thereof, of iron or steel; air heaters and hot-air distributors, incl. distributors which can also distribute fresh or conditioned air), not-electrically heated, incorporating a motor-driven fan or blower, and parts thereof, of iron or steel
7323	table, kitchen or other household articles, and parts thereof, of iron or steel; iron or steel wool; pot scourers and scouring or polishing pads, gloves and the like, of iron or steel (excl. cans, boxes and similar containers of heading 7310; waste baskets; shovels, corkscrews and other articles of the nature of a work implement; articles of cutlery, spoons, ladles, forks etc. of heading 8211 to 8215; ornamental articles; sanitary ware)
7324	sanitary ware, and parts thereof, of iron or steel (excl. cans, boxes and similar containers of heading 7310, small wall cabinets for medical supplies or toiletries and other furniture of chapter 94, and fittings)
7325	articles of iron or steel, cast, n.e.s.
7326	articles of iron or steel, n.e.s. (excl. cast articles)

▼ **M25***ANNEX XVIII***List of luxury goods referred to in Article 3h***EXPLANATORY NOTE*

The nomenclature codes are taken from the Combined Nomenclature as defined in Article 1(2) of Council Regulation (EEC) No 2658/87 of 23 July 1987 on the tariff and statistical nomenclature and on the Common Customs Tariff and as set out in Annex I thereto, which are valid at the time of publication of this Regulation and mutatis mutandis as amended by subsequent legislation.

(1) Horses

ex	0101 21 00	Pure-bred breeding animals
ex	0101 29 90	Other

(2) Caviar and caviar substitutes

ex	1604 31 00	Caviar
ex	1604 32 00	Caviar substitutes

(3) Truffles and preparations thereof

ex	0709 56 00	Truffles
ex	0710 80 69	Other
ex	0711 59 00	Other
ex	0712 39 00	Other
ex	2001 90 97	Other
ex	2003 90 10	Truffles
ex	2103 90 90	Other
ex	2104 10 00	Soups and broths and preparations therefor
ex	2104 20 00	Homogenised composite food preparations
ex	2106 00 00	Food preparations not elsewhere specified or included

(4) Wines (including sparkling wines), beers, spirits and spirituous beverages

ex	2203 00 00	Beer made from malt
ex	2204 10 11	Champagne
ex	2204 10 91	Asti spumante
ex	2204 10 93	Other
ex	2204 10 94	With a protected geographical indication (PGI)
ex	2204 10 96	Other varietal wines
ex	2204 10 98	Other

▼ M25

ex	2204 21 00	In containers holding 2 litres or less
ex	2204 29 00	Other
ex	2205 00 00	Vermouth and other wine of fresh grapes flavoured with plants or aromatic substances
ex	2206 00 00	Other fermented beverages (for example, cider, perry, mead, saké); mixtures of fermented beverages and mixtures of fermented beverages with non-alcoholic beverages, not elsewhere specified or included
ex	2207 10 00	Undenatured ethyl alcohol of an alcoholic strength by volume of 80 % vol or higher
ex	2208 00 00	Undenatured ethyl alcohol of an alcoholic strength by volume of less than 80 % vol; spirits, liqueurs and other spirituous beverages

(5) Cigars and cigarillos

ex	2402 10 00	Cigars, cheroots and cigarillos, containing tobacco
ex	2402 90 00	Other

(6) Perfumes, toilet waters and cosmetics, including beauty and make-up products

ex	3303	Perfumes and toilet waters
ex	3304 00 00	Beauty or make-up preparations and preparations for the care of the skin (other than medicaments), including sunscreen or suntan preparations; manicure or pedicure preparations
ex	3305 00 00	Preparations for use on the hair
ex	3307 00 00	Pre-shave, shaving or aftershave preparations, personal deodorants, bath preparations, depilatories and other perfumery, cosmetic or toilet preparations, not elsewhere specified or included; prepared room deodorisers, whether or not perfumed or having disinfectant properties
ex	6704 00 00	Wigs, false beards, eyebrows and eyelashes, switches and the like, of human or animal hair or of textile materials; articles of human hair not elsewhere specified or included

(7) Leather, saddlery and travel goods, handbags and similar articles

ex	4201 00 00	Saddlery and harness for any animal (including traces, leads, knee pads, muzzles, saddle-cloths, saddlebags, dog coats and the like), of any material
ex	4202 00 00	Trunks, suitcases, vanity cases, executive-cases, briefcases, school satchels, spectacle cases, binocular cases, camera cases, musical instrument cases, gun cases, holsters and similar containers; travelling-bags, insulated food or beverages bags, toilet bags, rucksacks, handbags, shopping-bags, wallets, purses, map-cases, cigarette-cases, tobacco-pouches, tool bags, sports bags, bottle-cases, jewellery boxes, powder boxes, cutlery cases and similar containers, of leather or of composition leather, of sheeting of plastics, of textile materials, of vulcanised fibre or of paperboard, or wholly or mainly covered with such materials or with paper

▼ **M25**

ex	4205 00 90	Other
ex	9605 00 00	Travel sets for personal toilet, sewing or shoe or clothes cleaning

(8) Coats, or other garments, clothing accessories and shoes (regardless of their material)

ex	4203 00 00	Articles of apparel and clothing accessories, of leather or of composition leather
ex	4303 00 00	Articles of apparel, clothing accessories and other articles of fur skin
ex	6101 00 00	Men's or boys' overcoats, car coats, capes, cloaks, anoraks (including ski jackets), windcheaters, wind-jackets and similar articles, knitted or crocheted, other than those of heading 6103
ex	6102 00 00	Women's or girls' overcoats, car coats, capes, cloaks, anoraks (including ski jackets), windcheaters, wind-jackets and similar articles, knitted or crocheted, other than those of heading 6104
ex	6103 00 00	Men's or boys' suits, ensembles, jackets, blazers, trousers, bib and brace overalls, breeches and shorts (other than swimwear), knitted or crocheted
ex	6104 00 00	Women's or girls' suits, ensembles, jackets, blazers, dresses, skirts, divided skirts, trousers, bib and brace overalls, breeches and shorts (other than swimwear), knitted or crocheted
ex	6105 00 00	Men's or boys' shirts, knitted or crocheted
ex	6106 00 00	Women's or girls' blouses, shirts and shirt-blouses, knitted or crocheted
ex	6107 00 00	Men's or boys' underpants, briefs, nightshirts, pyjamas, bathrobes, dressing gowns and similar articles, knitted or crocheted
ex	6108 00 00	Women's or girls' slips, petticoats, briefs, panties, nightdresses, pyjamas, negligés, bathrobes, dressing gowns and similar articles, knitted or crocheted
ex	6109 00 00	T-shirts, singlets and other vests, knitted or crocheted
ex	6110 00 00	Jerseys, pullovers, cardigans, waistcoats and similar articles, knitted or crocheted
ex	6111 00 00	Babies' garments and clothing accessories, knitted or crocheted
ex	6112 11 00	Of cotton
ex	6112 12 00	Of synthetic fibres
ex	6112 19 00	Of other textile materials
ex	6112 20 00	Ski suits
ex	6112 31 00	Of synthetic fibres
ex	6112 39 00	Of other textile materials
ex	6112 41 00	Of synthetic fibres
ex	6112 49 00	Of other textile materials
ex	6113 00 10	Of knitted or crocheted fabrics of heading 5906

▼ **M25**

ex	6113 00 90	Other
ex	6114 00 00	Other garments, knitted or crocheted
ex	6115 00 00	Pantyhose, tights, stockings, socks and other hosiery, including graduated compression hosiery (for example, stockings for varicose veins) and footwear without applied soles, knitted or crocheted
ex	6116 00 00	Gloves, mittens and mitts, knitted or crocheted
ex	6117 00 00	Other made-up clothing accessories, knitted or crocheted; knitted or crocheted parts of garments or of clothing accessories
ex	6201 00 00	Men's or boys' overcoats, car coats, capes, cloaks, anoraks (including ski jackets), windcheaters, wind-jackets and similar articles, other than those of heading 6203
ex	6202 00 00	Women's or girls' overcoats, car coats, capes, cloaks, anoraks (including ski jackets), windcheaters, wind-jackets and similar articles, other than those of heading 6204
ex	6203 00 00	Men's or boys' suits, ensembles, jackets, blazers, trousers, bib and brace overalls, breeches and shorts (other than swimwear)
ex	6204 00 00	Women's or girls' suits, ensembles, jackets, blazers, dresses, skirts, divided skirts, trousers, bib and brace overalls, breeches and shorts (other than swimwear)
ex	6205 00 00	Men's or boys' shirts
ex	6206 00 00	Women's or girls' blouses, shirts and shirt-blouses
ex	6207 00 00	Men's or boys' singlets and other vests, underpants, briefs, nightshirts, pyjamas, bathrobes, dressing gowns and similar articles
ex	6208 00 00	Women's or girls' singlets and other vests, slips, petticoats, briefs, panties, nightdresses, pyjamas, negligés, bathrobes, dressing gowns and similar articles
ex	6209 00 00	Babies' garments and clothing accessories
ex	6210 10 00	Of fabrics of heading 5602 or 5603
ex	6210 20 00	Other garments, of the type described in subheadings 6201 11 to 6201 19
ex	6210 30 00	Other garments, of the type described in subheadings 6202 11 to 6202 19
ex	6210 40 00	Other men's or boys' garments
ex	6210 50 00	Other women's or girls' garments
ex	6211 11 00	Men's or boys'
ex	6211 12 00	Women's or girls'
ex	6211 20 00	Ski suits
ex	6211 32 00	Of cotton
ex	6211 33 00	Of man-made fibres
ex	6211 39 00	Of other textile materials

▼ **M25**

ex	6211 42 00	Of cotton
ex	6211 43 00	Of man-made fibres
ex	6211 49 00	Of other textile materials
ex	6212 00 00	Brassières, girdles, corsets, braces, suspenders, garters and similar articles and parts thereof, whether or not knitted or crocheted
ex	6213 00 00	Handkerchiefs
ex	6214 00 00	Shawls, scarves, mufflers, mantillas, veils and the like
ex	6215 00 00	Ties, bow ties and cravats
ex	6216 00 00	Gloves, mittens and mitts
ex	6217 00 00	Other made-up clothing accessories; parts of garments or of clothing accessories, other than those of heading 6212
ex	6401 00 00	Waterproof footwear with outer soles and uppers of rubber or of plastics, the uppers of which are neither fixed to the sole nor assembled by stitching, riveting, nailing, screwing, plugging or similar processes
ex	6402 20 00	Footwear with upper straps or thongs assembled to the sole by means of plugs
ex	6402 91 00	Covering the ankle
ex	6402 99 00	Other
ex	6403 19 00	Other
ex	6403 20 00	Footwear with outer soles of leather, and uppers which consist of leather straps across the instep and around the big toe
ex	6403 40 00	Other footwear, incorporating a protective metal toecap
ex	6403 51 00	Covering the ankle
ex	6403 59 00	Other
ex	6403 91 00	Covering the ankle
ex	6403 99 00	Other
ex	6404 19 10	Slippers and other indoor footwear
ex	6404 20 00	Footwear with outer soles of leather or composition leather
ex	6405 00 00	Other footwear
ex	6504 00 00	Hats and other headgear, plaited or made by assembling strips of any material, whether or not lined or trimmed
ex	6505 00 10	Of fur felt or of felt of wool and fur, made from the hat bodies, hoods or plateaux of heading 6501 00 00
ex	6505 00 30	Peaked caps
ex	6505 00 90	Other
ex	6506 99 00	Of other materials

▼ **M25**

ex	6601 91 00	Having a telescopic shaft
ex	6601 99 00	Other
ex	6602 00 00	Walking sticks, seat-sticks, whips, riding-crops and the like
ex	9619 00 81	Napkins and napkin liners for babies

(9) Carpets, rugs and tapestries, hand-made or not

ex	5701 00 00	Carpets and other textile floor coverings, knotted, whether or not made up
ex	5702 10 00	‘Kelem’, ‘Schumacks’, ‘Karamanie’ and similar hand-woven rugs
ex	5702 20 00	Floor coverings of coconut fibres (coir)
ex	5702 31 80	Other
ex	5702 32 00	Of man-made textile materials
ex	5702 39 00	Of other textile materials
ex	5702 41 90	Other
ex	5702 42 00	Of man-made textile materials
ex	5702 50 00	Other, not of pile construction, not made up
ex	5702 91 00	Of wool or fine animal hair
ex	5702 92 00	Of man-made textile materials
ex	5702 99 00	Of other textile materials
ex	5703 00 00	Carpets and other textile floor coverings, tufted, whether or not made up
ex	5704 00 00	Carpets and other textile floor coverings, of felt, not tufted or flocked, whether or not made up
ex	5705 00 00	Other carpets and other textile floor coverings, whether or not made up
ex	5805 00 00	Hand-woven tapestries of the type Gobelins, Flanders, Aubusson, Beauvais and the like, and needle-worked tapestries (for example, petit point, cross stitch), whether or not made up

(10) Pearls, precious and semi-precious stones, articles of pearls, jewellery, gold- or silversmith articles

ex	7101 00 00	Pearls, natural or cultured, whether or not worked or graded but not strung, mounted or set; pearls, natural or cultured, temporarily strung for convenience of transport
ex	7102 00 00	Diamonds, whether or not worked, but not mounted or set, excluding for industrial use
ex	7103 00 00	Precious stones (other than diamonds) and semi-precious stones, whether or not worked or graded but not strung, mounted or set; ungraded precious stones (other than diamonds) and semi-precious stones, temporarily strung for convenience of transport

▼ M25

ex	7104 91 00	Diamonds, excluding for industrial use
ex	7105 00 00	Dust and powder of natural or synthetic precious or semi-precious stones
ex	7106 00 00	Silver (including silver plated with gold or platinum), unwrought or in semi-manufactured forms, or in powder form
ex	7107 00 00	Base metals clad with silver, not further worked than semi-manufactured
ex	7108 00 00	Gold (including gold plated with platinum), unwrought or in semi-manufactured forms, or in powder form
ex	7109 00 00	Base metals or silver, clad with gold, not further worked than semi-manufactured
ex	7110 11 00	Platinum, unwrought or in powder form
ex	7110 19 00	Platinum, other than unwrought or in powder form
ex	7110 21 00	Palladium, unwrought or in powder form
ex	7110 29 00	Palladium, other than unwrought or in powder form
ex	7110 31 00	Rhodium, unwrought or in powder form
ex	7110 39 00	Rhodium, other than unwrought or in powder form
ex	7110 41 00	Iridium, osmium and ruthenium, unwrought or in powder form
ex	7110 49 00	Iridium, osmium and ruthenium, other than unwrought or in powder form
ex	7111 00 00	Base metals, silver or gold, clad with platinum, not further worked than semi-manufactured
ex	7113 00 00	Articles of jewellery and parts thereof, of precious metal or of metal clad with precious metal
ex	7114 00 00	Articles of goldsmiths' or silversmiths' wares and parts thereof, of precious metal or of metal clad with precious metal
ex	7115 00 00	Other articles of precious metal or of metal clad with precious metal
ex	7116 00 00	Articles of natural or cultured pearls, precious or semi-precious stones (natural, synthetic or reconstructed)

(11) Coins and banknotes, not being legal tender

ex	4907 00 30	Banknotes
ex	7118 10 00	Coin (other than gold coin), not being legal tender
ex	7118 90 00	Other

(12) Cutlery of precious metal or plated or clad with precious metal

ex	7114 00 00	Articles of goldsmiths' or silversmiths' wares and parts thereof, of precious metal or of metal clad with precious metal
ex	7115 00 00	Other articles of precious metal or of metal clad with precious metal
ex	8214 00 00	Other articles of cutlery (for example, hair clippers, butchers' or kitchen cleavers, choppers and mincing knives, paperknives); manicure or pedicure sets and instruments (including nail files)

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ex	8215 00 00	Spoons, forks, ladles, skimmers, cake-servers, fish-knives, butter-knives, sugar tongs and similar kitchen or tableware
ex	9307 00 00	Swords, cutlasses, bayonets, lances and similar arms and parts thereof and scabbards and sheaths therefor

(13) Tableware of porcelain, china, stone- or earthenware or fine pottery

ex	6911 00 00	Tableware, kitchenware, other household articles and toilet articles, of porcelain or china
ex	6912 00 23	Stoneware
ex	6912 00 25	Earthenware or fine pottery
ex	6912 00 83	Stoneware
ex	6912 00 85	Earthenware or fine pottery
ex	6914 10 00	Of porcelain or china
ex	6914 90 00	Other

(14) Items of lead crystal

ex	7009 91 00	Unframed
ex	7009 92 00	Framed
ex	7010 00 00	Carboys, bottles, flasks, jars, pots, phials, ampoules and other containers, of glass, of a kind used for the conveyance or packing of goods; preserving jars of glass; stoppers, lids and other closures, of glass
ex	7013 22 00	Of lead crystal
ex	7013 33 00	Of lead crystal
ex	7013 41 00	Of lead crystal
ex	7013 91 00	Of lead crystal
ex	7018 10 00	Glass beads, imitation pearls, imitation precious or semi-precious stones and similar glass smallwares
ex	7018 90 00	Other
ex	7020 00 80	Other
ex	9405 50 00	Non-electrical lamps and lighting fittings
ex	9405 91 00	Of glass

(15) Electronic items for domestic use of a value exceeding EUR 750

ex	8414 51	Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W
ex	8414 59 00	Other
ex	8414 60 00	Hoods having a maximum horizontal side not exceeding 120 cm

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ex	8415 10 00	Window or wall types, self-contained or 'split-system'
ex	8418 10 00	Combined refrigerator-freezers, fitted with separate external doors
ex	8418 21 00	Compression-type
ex	8418 29 00	Other
ex	8418 30 00	Freezers of the chest type, not exceeding 800 litres capacity
ex	8418 40 00	Freezers of the upright type, not exceeding 900 litres capacity
ex	8419 81 00	For making hot drinks or for cooking or heating food
ex	8422 11 00	Of the household type
ex	8423 10 00	Personal weighing machines, including baby scales; household scales
ex	8443 12 00	Offset printing machinery, sheet fed, office type (using sheets with one side not exceeding 22 cm and the other side not exceeding 36 cm in the unfolded state)
ex	8443 31 00	Machines which perform two or more of the functions of printing, copying or facsimile transmission, capable of connecting to an automatic data-processing machine or to a network
ex	8443 32 00	Other, capable of connecting to an automatic data-processing machine or to a network
ex	8443 39 00	Other
ex	8450 11 00	Fully-automatic machines
ex	8450 12 00	Other machines, with built-in centrifugal drier
ex	8450 19 00	Other
ex	8451 21 00	Each of a dry linen capacity not exceeding 10 kg
ex	8452 10 00	Sewing machines of the household type
ex	8470 10 00	Electronic calculators capable of operation without an external source of electric power and pocket-size data-recording, reproducing and displaying machines with calculating functions
ex	8470 21 00	Incorporating a printing device
ex	8470 29 00	Other
ex	8470 30 00	Other calculating machines
ex	8472 90 80	Other
ex	8479 60 00	Evaporative air coolers
ex	8508 11 00	Of a power not exceeding 1 500 W and having a dust bag or other receptacle capacity not exceeding 20 l
ex	8508 19 00	Other
ex	8508 60 00	Other vacuum cleaners

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ex	8509 80 00	Other appliances
ex	8516 31 00	Hairdryers
ex	8516 50 00	Microwave ovens
ex	8516 60 10	Cookers (incorporating at least an oven and a hob)
ex	8516 71 00	Coffee or tea makers
ex	8516 72 00	Toasters
ex	8516 79 00	Other
ex	8517 11 00	Line telephone sets with cordless handsets
ex	8517 13 00	Smartphones
ex	8517 18 00	Other
ex	8529 10 65	Inside aerials for radio or television broadcast receivers, including built-in types
ex	8529 10 69	Other
ex	8531 10 00	Burglar or fire alarms and similar apparatus
ex	8543 70 10	Electrical machines with translation or dictionary functions
ex	8543 70 30	Aerial amplifiers
ex	8543 70 50	Sunbeds, sunlamps and similar suntanning equipment
ex	8543 70 90	Other
ex	9504 50 00	Video game consoles and machines, other than those of subheading 9504 30
ex	9504 90 80	Other

- (16) Electrical/electronic or optical apparatus for recording and reproducing sound and images of a value exceeding EUR 1 000

ex	8519 00 00	Sound recording or sound reproducing apparatus
ex	8521 00 00	Video recording or reproducing apparatus, whether or not incorporating a video tuner
ex	8527 00 00	Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock
ex	8528 71 00	Not designed to incorporate a video display or screen
ex	8528 72 00	Other, colour
ex	9006 00 00	Photographic (other than cinematographic) cameras; photographic flashlight apparatus and flashbulbs other than discharge lamps of heading 8539

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- (17) Vehicles, for the transport of persons on earth, air or sea of a value exceeding EUR 50 000 each, teleferics, chairlifts, ski-draglines, traction mechanisms for funiculars, motorbikes of a value exceeding EUR 5 000 each, as well as their accessories and spare parts

ex	4011 10 00	Of a kind used on motor cars (including station wagons and racing cars)
ex	4011 40 00	Of a kind used on motorcycles
ex	4011 90 00	Other
ex	7009 10 00	Rear-view mirrors for vehicles
ex	8407 00 00	Spark-ignition reciprocating or rotary internal combustion piston engines
ex	8409 00 00	Parts suitable for use solely or principally with the engines of heading 8407 or 8408
ex	8428 60 00	Teleferics, chairlifts, ski-draglines, traction mechanisms for funiculars
ex	8512 30 10	Burglar alarms of a kind used for motor vehicles
ex	8512 30 90	Other
ex	8512 40 00	Windscreen wipers, defrosters and demisters
ex	8603 00 00	Self-propelled railway or tramway coaches, vans and trucks, other than those of heading 8604
ex	8605 00 00	Railway or tramway passenger coaches, not self-propelled; luggage vans, post office coaches and other special purpose railway or tramway coaches, not self-propelled (excluding those of heading 8604)
ex	8607 00 00	Parts of railway or tramway locomotives or rolling stock
ex	8702 00 00	Motor vehicles for the transport of ten or more persons, including the driver
ex	8706 00 00	Chassis fitted with engines, for the motor vehicles of headings 8701 to 8705
ex	8707 00 00	Bodies (including cabs), for the motor vehicles of headings 8701 to 8705
ex	8708 00 00	Parts and accessories of the motor vehicles of headings 8701 to 8705
ex	8711 00 00	Motorcycles (including mopeds) and cycles fitted with an auxiliary motor, with or without side-cars; side-cars
ex	8712 00 00	Bicycles and other cycles (including delivery tricycles), not motorised
ex	8714 00 00	Parts and accessories of vehicles of headings 8711 to 8713
ex	8716 10 00	Trailers and semi-trailers of the caravan type, for housing or camping
ex	8716 40 00	Other trailers and semi-trailers
ex	8901 10 00	Cruise ships, excursion boats and similar vessels principally designed for the transport of persons; ferry-boats of all kinds
ex	8901 90 00	Other vessels for the transport of goods and other vessels for the transport of both persons and goods

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(18) Clocks and watches and their parts

ex	9101 00 00	Wristwatches, pocket-watches and other watches, including stopwatches, with case of precious metal or of metal clad with precious metal
ex	9102 00 00	Wristwatches, pocket-watches and other watches, including stopwatches, other than those of heading 9101
ex	9103 00 00	Clocks with watch movements, excluding clocks of heading 9104
ex	9104 00 00	Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels
ex	9105 00 00	Other clocks
ex	9108 00 00	Watch movements, complete and assembled
ex	9109 00 00	Clock movements, complete and assembled
ex	9110 00 00	Complete watch or clock movements, unassembled or partly assembled (movement sets); incomplete watch or clock movements, assembled; rough watch or clock movements
ex	9111 00 00	Watch cases and parts thereof
ex	9112 00 00	Clock cases and cases of a similar type for other goods of this chapter, and parts thereof
ex	9113 00 00	Watch straps, watch bands and watch bracelets, and parts thereof
ex	9114 00 00	Other clock or watch parts

(19) Musical instruments of a value exceeding EUR 1 500

ex	9201 00 00	Pianos, including automatic pianos; harpsichords and other keyboard stringed instruments
ex	9202 00 00	Other string musical instruments (for example, guitars, violins, harps)
ex	9205 00 00	Wind musical instruments (for example, keyboard pipe organs, accordions, clarinets, trumpets, bagpipes), other than fairground organs and mechanical street organs
ex	9206 00 00	Percussion musical instruments (for example, drums, xylophones, cymbals, castanets, maracas)
ex	9207 00 00	Musical instruments, the sound of which is produced, or must be amplified, electrically (for example, organs, guitars, accordions)

(20) Works of art, collectors' pieces and antiques

ex	9700	Works of art, collectors' pieces and antiques
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(21) Articles and equipment for sports, including skiing, golf, diving and water sports

ex	4015 19 00	Other
ex	4015 90 00	Other
ex	6210 40 00	Other men's or boys' garments
ex	6210 50 00	Other women's or girls' garments

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ex	6211 11 00	Men's or boys'
ex	6211 12 00	Women's or girls'
ex	6211 20 00	Ski suits
ex	6216 00 00	Gloves, mittens and mitts
ex	6402 12 00	Ski-boots, cross-country ski footwear and snowboard boots
ex	6402 19 00	Other
ex	6403 12 00	Ski-boots, cross-country ski footwear and snowboard boots
ex	6403 19 00	Other
ex	6404 11 00	Sports footwear; tennis shoes, basketball shoes, gym shoes, training shoes and the like
ex	6404 19 90	Other
ex	9004 90 00	Other
ex	9020 00 00	Other breathing appliances and gas masks, excluding protective masks having neither mechanical parts nor replaceable filters
ex	9506 11 00	Skis
ex	9506 12 00	Ski-fastenings (ski-bindings)
ex	9506 19 00	Other
ex	9506 21 00	Sailboards
ex	9506 29 00	Other
ex	9506 31 00	Clubs, complete
ex	9506 32 00	Golf balls
ex	9506 39 00	Other
ex	9506 40 00	Articles and equipment for table tennis
ex	9506 51 00	Lawn-tennis rackets, whether or not strung
ex	9506 59 00	Other
ex	9506 61 00	Lawn-tennis balls
ex	9506 69 10	Cricket and polo balls
ex	9506 69 90	Other
ex	9506 70	Ice skates and roller skates, including skating boots with skates attached
ex	9506 91	Articles and equipment for general physical exercise, gymnastics or athletics
ex	9506 99 10	Cricket and polo equipment, other than balls
ex	9506 99 90	Other
ex	9507 00 00	Fishing rods, fish-hooks and other line fishing tackle; fish landing nets, butterfly nets and similar nets; decoy 'birds' (other than those of heading 9208 or 9705) and similar hunting or shooting requisites

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- (22) Articles and equipment for billiard, automatic bowling, casino games and games operated by coins or banknotes

ex	9504 20 00	Articles and accessories for billiards of all kinds
ex	9504 30 00	Other games, operated by coins, banknotes, bank cards, tokens or by any other means of payment, other than automatic bowling alley equipment
ex	9504 40 00	Playing cards
ex	9504 50 00	Video game consoles and machines, other than those of subheading 9504 30
ex	9504 90 80	Other

- (23) Optical articles and equipment of any value

ex	9004 90 90	Night Vision Equipment, or Thermal Sight Equipment
ex	9013 80 90	Red Dot Sights

▼ M20*ANNEX XIX***List of legal persons, entities and bodies referred to in Article 5aa****Part A**

OPK OBORONPROM

UNITED AIRCRAFT CORPORATION

URALVAGONZAVOD

ROSNEFT

TRANSNEFT

GAZPROM NEFT

ALMAZ-ANTEY

KAMAZ

ROSTEC (RUSSIAN TECHNOLOGIES STATE CORPORATION)

JSC PO SEVMASH

SOVCOMFLOT

UNITED SHIPBUILDING CORPORATION

Part B

RUSSIAN MARITIME REGISTER of SHIPPING (RMRS)

Part C

RUSSIAN REGIONAL DEVELOPMENT BANK

▼ **M13***ANNEX XX***List of jet fuel and fuel additives as referred to in article 3c**

CN/TARIC Code	Name of the good
	Jet fuel (other than kerosene):
2710 12 70	Spirit type jet fuel (light oils)
2710 19 29	Other than kerosene (medium oils)
2710 19 21	Kerosene type jet fuel (medium oils)
2710 20 90	Kerosene type jet fuel blended with biodiesel ⁽¹⁾
	Oxidation inhibitors Oxidation inhibitors used in additives for lubricating oils:
3811 21 00	— oxidation inhibitors containing petroleum oils
3811 29 00	— other oxidation inhibitors
3811 90 00	Oxidation inhibitors used for other liquids used for the same purpose as mineral oils
	Static dissipater additives Static dissipater additives for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other
3811 90 00	Static dissipater additives for other liquids used for the same purpose as mineral oils
	Corrosion inhibitors Corrosion inhibitors for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other
3811 90 00	Corrosion inhibitors for other liquids used for the same purpose as mineral oils
	Fuel system icing inhibitors (anti-icing additives) Fuel system icing inhibitors for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other
3811 90 00	Fuel system icing inhibitors for other liquids used for the same purpose as mineral oils
	Metal de-activators Metal de-activators for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other

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CN/TARIC Code	Name of the good
3811 90 00	Metal de-activator for other liquids used for the same purpose as mineral oils
	Biocide additives Biocide additives for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other
3811 90 00	Biocide additives for other liquids used for the same purpose as mineral oils
	Thermal stability improver additives Thermal stability improver for lubricating oils:
3811 21 00	— containing petroleum oils
3811 29 00	— other
3811 90 00	Thermal stability improver for other liquids used for the same purpose as mineral oils

(¹) Provided it still contains 70 % or more by weight of petroleum oils or bituminous mineral oils.

▼ **M25***ANNEX XXI***List of goods and technology referred to in Article 3i**

CN code	Name of the good
0306	Crustaceans, whether in shell or not, live, fresh, chilled, frozen, dried, salted or in brine; smoked crustaceans, whether in shell or not, whether or not cooked before or during the smoking process; crustaceans, in shell, cooked by steaming or by boiling in water, whether or not chilled, frozen, dried, salted or in brine
1604 31 00	Caviar
1604 32 00	Caviar substitutes
2208	Undenatured ethyl alcohol of an alcoholic strength by volume of less than 80 % vol; spirits, liqueurs and other spirituous beverages
2303	Residues of starch manufacture and similar residues, beet-pulp, bagasse and other waste of sugar manufacture, brewing or distilling dregs and waste, whether or not in the form of pellets
2402	Cigars, cheroots, cigarillos and cigarettes, of tobacco or of tobacco substitutes
2523	Portland cement, aluminous cement, slag cement, supersulphate cement and similar hydraulic cements, whether or not coloured or in the form of clinkers
2701	Coal; briquettes, ovoids and similar solid fuels manufactured from coal
2702	Lignite, whether or not agglomerated, excluding jet
2703	Peat, including peat litter, whether or not agglomerated
2704	Coke and semi-coke of coal, of lignite or of peat, whether or not agglomerated; retort carbon
2705	Coal gas, water gas, producer gas and similar gases, other than petroleum gases and other gaseous hydrocarbons
2706	Tar distilled from coal, from lignite or from peat, and other mineral tars, whether or not dehydrated or partially distilled, including reconstituted tars
2707	Oils and other products of the distillation of high temperature coal tar; similar products in which the weight of the aromatic constituents exceeds that of the non-aromatic constituents
2708	Pitch and pitch coke, obtained from coal tar or from other mineral tars
2712	petroleum jelly, paraffin wax, micro- crystalline petroleum wax, slack wax, ozokerite, lignite wax, peat wax, other mineral waxes, and similar products obtained by synthesis or by other processes, whether or not coloured
2713	petroleum coke, petroleum bitumen and other residues of petroleum oil or of oil obtained from bituminous minerals
2714	bitumen and asphalt, natural; bituminous or oil-shale and tar sands; asphaltites and asphaltic rocks
2715	bituminous mastics, cut-backs and other bituminous mixtures based on natural asphalt, on natural bitumen, on petroleum bitumen, on mineral tar or on mineral tar pitch
2803	carbon (carbon blacks and other forms of carbon not elsewhere specified or included)

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CN code	Name of the good
2811	inorganic acids and inorganic oxygen compounds of non-metals (excl. hydrogen chloride 'hydrochloric acid', chlorosulphuric acid, sulphuric acid, oleum, nitric acid, sulphonitric acids, diphosphorus pentaoxide, phosphoric acid, polyphosphoric acids, oxides of boron and boric acids)
2818	artificial corundum, whether or not chemically defined; aluminium oxide; aluminium hydroxide
ex 2825	Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides, except for CN codes 2825 20 00 and 2825 30 00
2834	nitrites; nitrates
ex 2835	Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined, except for CN code 2835 26 00
2836	carbonates; peroxocarbonates 'percarbonates'; commercial ammonium carbonate containing ammonium carbamate
ex 2901	Acyclic hydrocarbons, except for CN code 2901 10 00
2902	Cyclic hydrocarbons
2903	halogenated derivatives of hydrocarbons
2905	Acyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives
2907	Phenols; phenol-alcohols
2909	Ethers, ether-alcohols, ether-phenols, ether-alcohol-phenols, alcohol peroxides, ether peroxides, acetal and hemiacetal peroxides, ketone peroxides (whether or not chemically defined), and their halogenated, sulphonated, nitrated or nitrosated derivatives
2914	ketones and quinones, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives
2915	saturated acyclic monocarboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives
2917	polycarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives
2922	oxygen-function amino-compounds
2923	quaternary ammonium salts and hydroxides; lecithins and other phosphoaminolipids, whether or not chemically defined
2931	separate chemically defined organo-inorganic compounds (excl. organo-sulphur compounds and those of mercury)
2933	heterocyclic compounds with nitrogen hetero-atom[s] only
3104 20	Potassium chloride
3105 20	Mineral or chemical fertilisers containing the three fertilising elements nitrogen, phosphorus and potassium
3105 60	Mineral or chemical fertilisers containing the two fertilising elements phosphorus and potassium

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CN code	Name of the good
ex 3105 90 20	Other fertilising containing photassium chloride
ex 3105 90 80	Other fertilising containing photassium chloride
3301	essential oils, whether or not terpeneless, incl. concretes and absolutes; resinoids; extracted oleoresins; concentrates of essential oils in fats, fixed oils, waxes or the like, obtained by enfleurage or maceration; terpenic by-products of the deterpenation of essential oils; aqueous distillates and aqueous solutions of essential oils
3304	beauty or make-up preparations and preparations for the care of the skin, incl. sunscreen or suntan preparations (excl. medicaments); manicure or pedicure preparations
3305	preparations for use on the hair
3306	preparations for oral or dental hygiene, incl. denture fixative pastes and powders; yarn used to clean between the teeth 'dental floss', in individual retail packages
3307	shaving preparations, incl. pre-shave and aftershave products, personal deodorants, bath and shower preparations, depilatories and other perfumery, toilet or cosmetic preparations, n.e.s.; prepared room deodorisers, whether or not perfumed or having disinfectant properties
3401	soap; organic surface-active products and preparations for use as soap, in the form of bars, cakes, moulded pieces or shapes, whether or not containing soap; organic surface-active products and preparations for washing the skin, in the form of liquid or cream and put up for retail sale, whether or not containing soap; paper, wadding, felt and nonwovens, impregnated, coated or covered with soap or detergent
3402	organic surface-active agents (excl. soap); surface-active preparations, washing preparations, incl. auxiliary washing preparations, and cleaning preparations, whether or not containing soap (excl. those of heading 3401)
3404	artificial waxes and prepared waxes
3801	artificial graphite; colloidal or semi-colloidal graphite; preparations based on graphite or other carbon in the form of pastes, blocks, plates or other semi-manufactures
3811	anti-knock preparations, oxidation inhibitors, gum inhibitors, viscosity improvers, anti-corrosive preparations and other prepared additives, for mineral oils, incl. gasoline, or for other liquids used for the same purposes as mineral oils
3812	prepared rubber accelerators; compound plasticisers for rubber or plastics, n.e.s.; anti-oxidising preparations and other compound stabilisers for rubber or plastics
3817	mixed alkylbenzenes and mixed alkyl-naphthalenes produced by the alkylation of benzene and naphthalene (excl. mixed isomers of cyclic hydrocarbons)
3819	hydraulic brake fluids and other prepared liquids for hydraulic transmission not containing petroleum oil or bituminous mineral oil, or containing < 70 % petroleum oil or bituminous mineral oil by weight
3823	industrial monocarboxylic fatty acids; acid oils from refining; industrial fatty alcohols
3824	prepared binders for foundry moulds or cores; chemical products and preparations for the chemical or allied industries, incl. mixtures of natural products, n.e.s.

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CN code	Name of the good
3901	polymers of ethylene, in primary forms
3902	Polymers of propylene or of other olefins, in primary forms
3903	polymers of styrene, in primary forms
3904	polymers of vinyl chloride or of other halogenated olefins, in primary forms
3907	polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms
3908	polyamides, in primary forms
3916	monofilament of which any cross-sectional dimension > 1 mm, rods, sticks and profile shapes, of plastics, whether or not surface-worked but not further worked
3917	tubes, pipes and hoses, and fittings therefor, e.g. joints, elbows, flanges, of plastics
3919	self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls (excl. floor, wall and ceiling coverings of heading 3918)
3920	plates, sheets, film, foil and strip, of non-cellular plastics, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)
3921	plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, or of cellular plastic, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)
3923	articles for the conveyance or packaging of goods, of plastics; stoppers, lids, caps and other closures, of plastics
3925	builders' ware of plastics, n.e.s.
3926	articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s.
4002	synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of natural rubber, balata, gutta-percha, guayule, chicle or similar types of natural rubber with synthetic rubber or factice, in primary forms or in plates, sheets or strip
4011	New pneumatic tyres, of rubber
4107	leather further prepared after tanning or crusting 'incl. parchment-dressed leather', of bovine 'incl. buffalo' or equine animals, without hair on, whether or not split (excl. chamois leather, patent leather and patent laminated leather, and metallised leather)
4202	trunks, suitcases, vanity cases, executive-cases, briefcases, school satchels, spectacle cases, binocular cases, camera cases, musical instrument cases, gun cases, holsters and similar containers; travelling-bags, insulated food or beverage bags, toilet bags, rucksacks, handbags, shopping-bags, wallets, purses, map-cases, cigarette-cases, tobacco-pouches, tool bags, sports bags, bottle-cases, jewellery boxes, powder-boxes, cutlery cases and similar containers, of leather or of composition leather, of sheeting of plastics, of textile materials, of vulcanised fibre or of paperboard, or wholly or mainly covered with such materials or with paper

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CN code	Name of the good
4301	raw furskins, incl. heads, tails, paws and other pieces or cuttings suitable for use in furriery (excl. raw hides and skins of heading 4101, 4102 or 4103)
44	Wood and articles of wood; wood charcoal
4703	chemical wood pulp, soda or sulphate (excl. dissolving grades)
4705	Wood pulp obtained by a combination of mechanical and chemical pulping processes
4801	newsprint as specified in note 4 to chapter 48, in rolls of a width > 28 cm or in square or rectangular sheets with one side > 28 cm and the other side > 15 cm in the unfolded state
4802	uncoated paper and paperboard, of a kind used for writing, printing or other graphic purposes, and non-perforated punchcards and punch-tape paper, in rolls or in square or rectangular sheets, of any size, and handmade paper and paperboard (excl. newsprint of heading 4801 and paper of heading 4803)
4803	toilet or facial tissue stock, towel or napkin stock and similar paper for household or sanitary purposes, cellulose wadding and webs of cellulose fibres, whether or not creped, crinkled, embossed, perforated, surface-coloured, surface-decorated or printed, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state
4804	uncoated kraft paper and paperboard, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state (excl. goods of heading 4802 or 4803)
4805	other paper and paperboard, uncoated, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state, not worked other than as specified in note 3 to this chapter, n.e.s.
4810	paper and paperboard, coated on one or both sides with kaolin 'china clay' or other inorganic substances, with or without a binder, and with no other coating, whether or not surface-coloured, surface-decorated or printed, in rolls or in square or rectangular sheets, of any size (excl. all other coated papers and paperboards)
4811	paper, paperboard, cellulose wadding and webs of cellulose fibres, coated, impregnated, covered, surface-coloured, surface-decorated or printed, in rolls or in square or rectangular sheets, of any size (excl. goods of heading 4803, 4809 and 4810)
4818	toilet paper and similar paper, cellulose wadding or webs of cellulose fibres, of a kind used for household or sanitary purposes, in rolls of a width ≤ 36 cm, or cut to size or shape; handkerchiefs, cleansing tissues, towels, tablecloths, serviettes, bedsheets and similar household, sanitary or hospital articles, articles of apparel and clothing accessories, of paper pulp, paper, cellulose wadding or webs of cellulose fibres
4819	cartons, boxes, cases, bags and other packing containers, of paper, paperboard, cellulose wadding or webs of cellulose fibres, n.e.s.; box files, letter trays, and similar articles, of paperboard of a kind used in offices, shops or the like
4823	paper, paperboard, cellulose wadding and webs of cellulose fibres, in strips or rolls of a width ≤ 36 cm, in rectangular or square sheets of which no side > 36 cm in the unfolded state, or cut to shape other than rectangular or square, and articles of paper pulp, paper, paperboard, cellulose wadding or webs or cellulose fibres, n.e.s.

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CN code	Name of the good
5402	synthetic filament yarn, incl. synthetic monofilaments of < 67 decitex (excl. sewing thread and yarn put up for retail sale)
5601	wadding of textile materials and articles thereof; textile fibres with a length of ≤ 5 mm 'flock', textile dust and mill neps (excl. wadding and articles thereof impregnated or coated with pharmaceutical substances or put up for retail sale for medical, surgical, dental or veterinary purposes, and products impregnated, coated or covered with perfumes, cosmetics, soaps etc.)
5603	nonwovens, whether or not impregnated, coated, covered or laminated, n.e.s.
6204	women's or girls' suits, ensembles, jackets, blazers, dresses, skirts, divided skirts, trousers, bib and brace overalls, breeches and shorts (excl. knitted or crocheted, wind-jackets and similar articles, slips, petticoats and panties, tracksuits, ski suits and swimwear)
6305	sacks and bags, of a kind used for the packing of goods, of all types of textile materials
6403	footwear with outer soles of rubber, plastics, leather or composition leather and uppers of leather (excl. orthopaedic footwear, skating boots with ice or roller skates attached, and toy footwear)
6806	slag-wool, rock-wool and similar mineral wools; exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials; mixtures and articles of heat-insulating, sound-insulating or sound absorbing mineral materials (excl. articles of light concrete, asbestos, asbestos-cement, cellulose fibre-cement or the like, mixtures and other articles of or based on asbestos, and ceramic products)
6807	articles of asphalt or of similar materials, e.g. petroleum bitumen or coal tar pitch
6808	panels, boards, tiles, blocks and similar articles of vegetable fibre, of straw or of shavings, chips, particles, sawdust or other waste of wood, agglomerated with cement, plaster or other mineral binders (excl. articles of asbestos-cement, cellulose fibre-cement or the like)
6810	Articles of cement, of concrete or of artificial stone, whether or not reinforced
6814	worked mica and articles of mica, incl. agglomerated or reconstituted mica, whether or not on a support of paper, paperboard or other materials (excl. electrical insulators, insulating fittings, resistors and capacitors, protective goggles of mica and their glasses, and mica in the form of christmas tree decorations)
6815	articles of stone or of other mineral substances, incl. carbon fibres, articles of carbon fibres and articles of peat, n.e.s.
6902	refractory bricks, blocks, tiles and similar refractory ceramic constructional goods (excl. those of siliceous fossil meals or similar siliceous earths)
6907	ceramic flags and paving, hearth or wall tiles; ceramic mosaic cubes and the like, whether or not on a backing (excl. of siliceous fossil meals or similar siliceous earths, refractory goods, tiles specially adapted as table mats, ornamental articles and tiles specifically manufactured for stoves)
7005	Float glass and surface ground or polished glass, in sheets, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked
7007	Safety glass, consisting of toughened (tempered) or laminated glass
7010	Carboys, bottles, flasks, jars, pots, phials, ampoules and other containers, of glass, of a kind used for the conveyance or packing of goods; preserving jars of glass; stoppers, lids and other closures, of glass

▼ M25

CN code	Name of the good
7019	Glass fibres (including glass wool) and articles thereof (for example, yarn, rovings, woven fabrics)
7104	precious and semi-precious stones, synthetic or reconstructed, whether or not worked or graded but not strung, mounted or set; ungraded synthetic or reconstructed precious or semi-precious stones, temporarily strung for convenience of transport
7106	Silver (including silver plated with gold or platinum), unwrought or in semi-manufactured forms, or in powder form
7112	waste and scrap of precious metal or of metal clad with precious metal; other waste and scrap containing precious metal or precious-metal compounds, of a kind used principally for the recovery of precious metal (excl. waste and scrap melted down into unworked blocks, ingots, or similar forms)
7115	articles of precious metal or of metal clad with precious metal, n.e.s.
7606	Aluminium plates, sheets and strip, of a thickness exceeding 0,2 mm
7801	Unwrought lead
8207	tools, interchangeable, for hand tools, whether or not power-operated, or for machine tools 'e.g. for pressing, stamping, punching, tapping, threading, drilling, boring, broaching, milling, turning or screw driving', incl. dies for drawing or extruding metal, and rock-drilling or earth-boring tools
8212	non-electric razors and razor blades of base metal, incl. razor blade blanks in strips
8302	base metal mountings, fittings and similar articles suitable for furniture, doors, staircases, windows, blinds, coachwork, saddlery, trunks, chests, caskets or the like; base metal hat-racks, hat-pegs, brackets and similar fixtures; castors with mountings of base metal; automatic door closers of base metal
8309	stoppers, caps and lids, incl. crown corks, screw caps and pouring stoppers, capsules for bottles, threaded bungs, bung covers, seals and other packing accessories, of base metal
8407	spark-ignition reciprocating or rotary internal combustion piston engine
8408	compression-ignition internal combustion piston engine 'diesel or semi-diesel engine'
8409	parts suitable for use solely or principally with internal combustion piston engine of heading 8407 or 8408
ex 8411	Turbojets, turbopropellers and other gas turbines with the exception of parts of turbojets or turbopropellers of CN code 8411 91 00
8412	engines and motors (excl. steam turbines, internal combustion piston engine, hydraulic turbines, water wheels, gas turbines and electric motors); parts thereof
8413	pumps for liquids, whether or not fitted with a measuring device (excl. ceramic pumps and secretion aspirating pumps for medical use and medical pumps carried on or implanted in the body); liquid elevators (excl. pumps); parts thereof
8414	air or vacuum pumps (excl. gas compound elevators and pneumatic elevators and conveyors); air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof
8418	refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps; parts thereof (excl. air conditioning machines of heading 8415)

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CN code	Name of the good
8419	machinery, plant or laboratory equipment whether or not electrically heated (excl. furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling (excl. those used for domestic purposes); instantaneous or storage water heaters, non-electric; parts thereof
8421	centrifuges, incl. centrifugal dryers (excl. those for isotope separation); filtering or purifying machinery and apparatus, for liquids or gases; parts thereof (excl. artificial kidneys)
8422	dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery, incl. heat-shrink wrapping machinery; machinery for aerating beverages; parts thereof
8424	mechanical appliances, whether or not hand-operated, for projecting, dispersing or spraying liquids or powders, n.e.s.; fire extinguishers, charged or not (excl. fire-extinguishing bombs and grenades); spray guns and similar appliances (excl. electric machines and apparatus for hot spraying of metals or sintered metal carbides of heading 8515); steam or sand blasting machines and similar jet projecting machines; parts thereof, n.e.s.
8426	ships' derricks; cranes, incl. cable cranes (excl. wheel-mounted cranes and vehicle cranes for railways); mobile lifting frames, straddle carriers and works trucks fitted with a crane
8431	Parts suitable for use solely or principally with the machinery of headings 8425 to 8430
8450	household or laundry-type washing machines, incl. machines which both wash and dry; parts thereof
8455	metal-rolling mills and rolls therefor; parts of metal-rolling mills
8466	parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, incl. work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines, n.e.s.; tool holders for any type of tool for working in the hand
8467	tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor; parts thereof
8471	automatic data-processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, n.e.s.
8474	machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid, incl. powder or paste, form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand; parts thereof
8477	machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter, parts thereof
8479	machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof
8480	moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics (excl. moulds of graphite or other carbons, ceramic or glass moulds and linotype moulds or matrices)

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CN code	Name of the good
8481	taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, incl. pressure-reducing valves and thermostatically controlled valves; parts thereof
8482	ball or roller bearings (excl. steel balls of heading 7326); parts thereof
8483	transmission shafts, incl. camshafts and crankshafts, and cranks; bearing housings and plain shaft bearings for machines; gears and gearing; ball or roller screws, gear boxes and other speed changers, incl. torque converters; flywheels and pulleys, incl. pulley blocks, clutches and shaft couplings, incl. universal joints; parts thereof
8487	machinery parts, n.e.s. in chapter 84 (excl. parts containing electrical connectors, insulators, coils, contacts or other electrical features)
8501	electric motors and generators (excl. generating sets)
8502	electric generating sets and rotary converters
8503	parts suitable for use solely or principally with electric motors and generators, electric generating sets and rotary converters, n.e.s.
8504	electrical transformers, static converters, e.g. rectifiers, and inductors; parts thereof
8511	electrical ignition or starting equipment of a kind used for spark-ignition or compression-ignition internal combustion engines, e.g. ignition magnetos, magneto-dynamos, ignition coils, sparking plugs, glow plugs and starter motors; generators, e.g. dynamos and alternators, and cut-outs of a kind used in conjunction with such engines; parts thereof
8516	electric instantaneous or storage water heaters and immersion heaters; electric space-heating apparatus and soil-heating apparatus; electro-thermic hairdressing apparatus, e.g. hairdryers, hair curlers and curling tong heaters, and hand dryers; electric smoothing irons; other electro-thermic appliances of a kind used for domestic purposes; electric heating resistors (other than those of heading 8545); parts thereof
8517	telephone sets, incl. telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data, incl. apparatus for communication in a wired or wireless network [such as a local or wide area network]; parts thereof (excl. than transmission or reception apparatus of heading 8443, 8525, 8527 or 8528)
8523	discs, tapes, solid-state non-volatile storage devices, 'smart cards' and other media for the recording of sound or of other phenomena, whether or not recorded, incl. matrices and masters for the production of discs (excl. products of chapter 37)
8525	transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders
8526	radar apparatus, radio navigational aid apparatus and radio remote control apparatus
8531	electric sound or visual signalling apparatus, e.g. bells, sirens, indicator panels, burglar or fire alarms (excl. those for cycles, motor vehicles and traffic signalling); parts thereof
8535	electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits, e.g., switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes, for a voltage > 1 000 V (excl. control desks, cabinets, panels etc. of heading 8537)

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CN code	Name of the good
8536	electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits, e.g., switches, relays, fuses, surge suppressors, plugs, sockets, lamp holders and junction boxes, for a voltage $\leq 1\,000\text{ V}$ (excl. control desks, cabinets, panels etc. of heading 8537)
8537	boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, for electric control or the distribution of electricity, incl. those incorporating instruments or apparatus of chapter 90, and numerical control apparatus (excl. switching apparatus for line telephony or line telegraphy)
8538	parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537, n.e.s.
8539	electric filament or discharge lamps, incl. sealed beam lamp units and ultraviolet or infra-red lamps; arc lamps; light-emitting diode 'led' lamps; parts thereof
8541	diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, incl. photovoltaic cells whether or not assembled in modules or made up into panels (excl. photovoltaic generators); light emitting diodes 'led'; mounted piezoelectric crystals; parts thereof
8542	electronic integrated circuits; parts thereof
8543	electrical machines and apparatus, having individual functions, n.e.s. in chapter 85 and parts thereof
8544	insulated 'incl. enamelled or anodised' wire, cable 'incl. coaxial cable' and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors
8545	carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon, with or without metal, of a kind used for electrical purposes
8603	self-propelled railway or tramway coaches, vans and trucks (excl. those of heading 8604)
8606	railway or tramway goods vans and wagons (excl. self-propelled and luggage vans and post office coaches)
8701	tractors (other than tractors of heading 8709)
8703	motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars (excl. motor vehicles of heading 8702)
8704	motor vehicles for the transport of goods, incl. chassis with engine and cab
8716	trailers and semi-trailers; other vehicles, not mechanically propelled (excl. railway and tramway vehicles); parts thereof, n.e.s.
8802	powered aircraft 'e.g. helicopters and aeroplanes'; spacecraft, incl. satellites, and suborbital and spacecraft launch vehicles
8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges and similar vessels for the transport of persons or goods
8903	yachts and other vessels for pleasure or sports; rowing boats and canoes
8904	Tugs and pusher craft

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CN code	Name of the good
8905	Light-vessels, fire-floats, dredgers, floating cranes, and other vessels the navigability of which is subsidiary to their main function; floating docks; floating or submersible drilling or production platforms
9001	optical fibres and optical fibre bundles; optical fibre cables (excl. made up of individually sheathed fibres of heading 8544); sheets and plates of polarising material; lenses, incl. contact lenses, prisms, mirrors and other optical elements of any material, unmounted (excl. such elements of glass not optically worked)
9006	photographic cameras, photographic flashlight apparatus and flashbulbs (excl. discharge lamps of heading 8539)
9013	liquid crystal devices not constituting articles provided for more specifically in other heading; lasers (excl. laser diodes); other optical appliances and instruments not elsewhere specified in chapter 90
9014	direction finding compasses; other navigational instruments and appliances (excl. radio navigational equipment)
9026	instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases, e.g. flow meters, level gauges, manometers, heat meters (excl. instruments and apparatus of heading 9014, 9015, 9028 or 9032)
9027	instruments and apparatus for physical or chemical analysis, e.g. polarimeters, refractometers, spectrometers, gas or smoke analysis apparatus; instruments and apparatus for measuring or checking viscosity, porosity, expansion, surface tension or the like; instruments and apparatus for measuring or checking quantities of heat, sound or light, incl. exposure meters; microtomes
9030	oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities (excl. meters of heading 9028); instruments and apparatus for measuring or detecting alpha, beta, gamma, x-ray, cosmic or other ionising radiations
9031	measuring or checking instruments, appliances and machines not elsewhere specified in chapter 90; profile projectors
9032	regulating or controlling instruments and apparatus (excl. taps, cocks and valves of heading 8481)
9401	seats, whether or not convertible into beds, and parts thereof, n.e.s. (excl. medical, surgical, dental or veterinary of heading 9402)
9403	Other furniture and parts thereof
9404	mattress supports (excl. spring interiors for seats); articles of bedding and similar furnishing, e.g. mattresses, quilts, eiderdowns, cushions, pouffes and pillows, fitted with springs or stuffed or internally filled with any material or of cellular rubber or plastics, whether or not covered (excl. pneumatic or water mattresses and pillows, blankets and covers)
9405	lamps and lighting fittings, incl. searchlights and spotlights, and parts thereof, n.e.s.; illuminated signs, illuminated nameplates and the like having a permanently fixed light source, and parts thereof, n.e.s.
9406	prefabricated buildings, whether or not complete or already assembled

▼ **M25***ANNEX XXIII***List of goods and technology as referred to in Article 3k**

CN code	Description
0601	Bulbs, tubers, tuberous roots, corms, crowns and rhizomes, dormant, in growth or in flower, chicory plants and roots other than roots of heading 1212
0602 30	Rhododendrons and azaleas, grafted or not
0602 40	Roses, grafted or not
0602 90	Other live plants (including their roots), cuttings and slips; mushroom spawn – Other
0604 20	Foliage, branches and other parts of plants, without flowers or flower buds, and grasses, mosses and lichens, being goods of a kind suitable for bouquets or for ornamental purposes, fresh, dried, dyed, bleached, impregnated or otherwise prepared – Fresh
2508	Clays, andalusite, kyanite and sillimanite, whether or not calcined; mullite; chamotte or dinas earths (excl. kaolin and other kaolinic clays, and expanded clay)
2509	Chalk
2512	Siliceous fossil meals (for example, kieselguhr, tripolite and diatomite) and similar siliceous earths, whether or not calcined, of an apparent specific gravity of 1 or less
2515	Marble, travertine, ecaussine and other calcareous monumental or building stone of an apparent specific gravity of $\geq 2,5$, and alabaster, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a square or rectangular shape
2518 20	Calcined or sintered dolomite
2519 10	Natural magnesium carbonate (magnesite)
2520 10	Gypsum; anhydrite
2521	Limestone flux; limestone and other calcareous stone, of a kind used for the manufacture of lime or cement
2522	Quicklime, slaked lime and hydraulic lime other than calcium oxide and hydroxide of heading 2825
2525	Mica, whether or not rifted into sheets or splittings; mica waste
2526	Natural steatite, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape; talc
2530 20	Kieserite, epsomite (natural magnesium sulphates)
2701	Coal; briquettes, ovoids and similar solid fuels manufactured from coal
2702	Lignite, whether or not agglomerated, excluding jet
2703	Peat (including peat litter), whether or not agglomerated
2704	Coke and semi-coke of coal, of lignite or of peat, whether or not agglomerated; retort carbon

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CN code	Description
2707 30	Xylol (xylenes)
2708	Pitch and Pitch coke, obtained from coal tar or from other mineral tars
2710	Petroleum oils and oils obtained from bituminous minerals (excl. crude); preparations containing ≥ 70 % by weight of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations, n.e.s.; waste oils containing mainly petroleum or bituminous minerals
2712	Petroleum jelly, paraffin wax, micro- crystalline petroleum wax, slack wax, ozokerite, lignite wax, peat wax, other mineral waxes, and similar products obtained by synthesis or by other processes, whether or not coloured
2715	Bituminous mastics, cut-backs and other bituminous mixtures based on natural asphalt, on natural bitumen, on petroleum bitumen, on mineral tar or on mineral tar pitch - Other
ex 2804	Hydrogen and other non-metals (excluding rare gases)
2806	Hydrogen chloride 'hydrochloric acid'; chlorosulphuric acid
2811 29	Other inorganic oxygen compounds of non-metals - Other
2813 10	Carbon disulphide
2814	Ammonia, anhydrous or in aqueous solution
2815 12	Sodium hydroxide (caustic soda) - In aqueous solution (soda lye or liquid soda)
2818 30	aluminium hydroxide
2819	Chromium oxides and hydroxides
2820	Manganese oxides
2827 31	Other chlorides - Of magnesium
2827 35	Other chlorides - Of nikel
2828	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites
2829 11	Chlorates - Of sodium
2832 20	Sulphites (excluding sodium)
2833 24	Sulphates of nickel
2833 30	Alums
2834 10	Nitrites
2836 30	Sodium hydrogencarbonate (sodium bicarbonate)
2836 50	Calcium carbonate
2839	Silicates; commercial alkali metal silicates
2840 30	Peroxoborates (perborates)

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CN code	Description
2841 50	Other chromates and dichromates; peroxochromates
2841 80	Tungstates (wolframates)
2843	Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals
2847	Hydrogen peroxide, whether or not solidified with urea
2901	Acyclic hydrocarbons
2902	Cyclic hydrocarbons
2903	Halogenated derivatives of hydrocarbons
2904	Sulphonated, nitrated or nitrosated derivatives of hydrocarbons, whether or not halogenated
2905 13	Butan-1-ol (n-butyl alcohol)
2905 16	Octanol (octyl alcohol) and isomers thereof
2905 19	Saturated monohydric alcohols - Other
2905 41	2-Ethyl-2-(hydroxymethyl)propane-1,3-diol (trimethylolpropane)
2905 59	Other polyhydric alcohols - Other
2906	Cyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives
2907	Phenols; phenol-alcohols
2909	Ethers, ether-alcohols, ether-phenols, ether-alcohol-phenols, alcohol peroxides, ether peroxide, ketone peroxides, whether or not chemically defined, and their halogenated, sulphonated, nitrated or nitrosated derivatives
2910	Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, with a three-membered ring, and their halogenated, sulphonated, nitrated or nitrosated derivatives
2911	Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives
2912	Aldehydes, whether or not with other oxygen function; cyclic polymers of aldehydes; para-formaldehyde
2914 11	Acetone
2914 61	Anthraquinone
2915 13	Esters of formic acid
2915 90	Saturated acyclic monocarboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives - Other
2916	Unsaturated acyclic monocarboxylic acids, cyclic monocarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives

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CN code	Description
2917 33	Dinonyl or didecyl orthophthalates
2920 11	Parathion (ISO) and parathion-methyl (ISO) (methyl-parathion)
2921 22	Hexamethylenediamine and its salts
2921 41	Aniline and its salts
2922 11	Monoethanolamine and its salts
2922 43	Anthranilic acid and its salts
2923 20	Lecithins and other phosphoaminolipids
2930 40	Methionine
2933 54	Other derivatives of malonylurea (barbituric acid); salts thereof
2933 71	6-Hexanelactam (epsilon-caprolactam)
3201	Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives
3202	Synthetic organic tanning substances; inorganic tanning substances; tanning preparations, whether or not containing natural tanning substances; enzymatic preparations for pre-tanning
3203	colouring matter of vegetable or animal origin, incl. dye extracts (excl. animal black), whether or not chemically defined; preparations based on colouring matter of vegetable or animal origin of a kind used to dye fabrics or produce colorant preparations (excl. preparations of heading 3207, 3208, 3209, 3210, 3213 and 3215) - Other
3204 90	Synthetic organic colouring matter, whether or not chemically defined; preparations as specified in note 3 to this chapter based on synthetic organic colouring matter; synthetic organic products of a kind used as fluorescent brightening agents or as luminophores, whether or not chemically defined
3205	colour lakes (other than chinese or japanese lacquer and paints); preparations based on colour lakes of a kind used to dye fabrics or produce colorant preparations (excl. preparations of heading 3207, 3208, 3209, 3210, 3213 and 3215)
3206 41	ultramarine and preparations based thereon of a kind used for colouring any material or produce colorant preparations (excl. preparations of heading 3207, 3208, 3209, 3210, 3213 and 3215)
3206 49	inorganic or mineral colouring matter, n.e.s.; preparations based on inorganic or mineral colouring matter of a kind used for colouring any material or produce colorant preparations, n.e.s. (excl. preparations of heading 3207, 3208, 3209, 3210, 3213 and 3215 and inorganic products of a kind used as luminophores) - Other
3207	Prepared pigments, prepared opacifiers and prepared colours, vitrifiable enamels and glazes, engobes, liquid lustres and similar preparations of a kind used in the ceramic, enamelling or glass industry; glass frit and other glass in the form of powder, granules or flakes
3208	Paints and varnishes, incl. enamels and lacquers, based on synthetic polymers or chemically modified natural polymers, dispersed or dissolved in a non-aqueous medium; solutions of products of headings 3901 to 3913 in volatile organic solvents, containing > 50 % solvent by weight (excl. solutions of collodion)

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CN code	Description
3209	Paints and varnishes, incl. enamels and lacquers, based on synthetic polymers or chemically modified natural polymers, dispersed or dissolved in an aqueous medium
3210	Other paints and varnishes (including enamels, lacquers and distempers); prepared water pigments of a kind used for finishing leather
3212 90	Pigments (including metallic powders and flakes) dispersed in non- aqueous media, in liquid or paste form, of a kind used in the manufacture of paints (including enamels); stamping foils; dyes and other colouring matter put up in forms or packings for retail sale - Other
3214	Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics; painters' fillings; non-refractory surfacing preparations for façades, indoor walls, floors, ceilings or the like
3215 11	Printing ink - Black
3215 19	Printing ink - Other
3403	Lubricant preparations, incl. cutting-oil preparations, bolt or nut release preparations, anti-rust or anti-corrosion preparations and mould-release preparations based on lubricants; textile lubricant preparations and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials (excl. preparations containing, as basic constituents, ≥ 70 % petroleum oil or bituminous mineral oil by weight)
3505 10	Dextrins and other modified starches
3506 99	Prepared glues and other prepared adhesives, not elsewhere specified or included; products suitable for use as glues or adhesives, put up for retail sale as glues or adhesives, not exceeding a net weight of 1 kg- Other
3701 20	Instant print film
3701 91	For colour photography (polychrome)
3702	Photographic film in rolls, sensitised, unexposed, of any material other than paper, paperboard or textiles; instant print film in rolls, sensitised, unexposed
3703	Photographic paper, paperboard and textiles, sensitised, unexposed
3705	photographic plates and film, exposed and developed (excl. products made of paper, paperboard or textiles, cinematographic film and ready-to-use printing plates)
3706	cinematographic film, exposed and developed, whether or not incorporating soundtrack or consisting only of soundtrack
3801 20	colloidal or semi-colloidal graphite
3806 20	salts of rosin, of resin acids or of derivatives of rosin or resin acids (excl. salts of rosin adducts)
3807	wood tar; wood tar oils; wood creosote; wood naphtha; vegetable pitch; brewer's pitch and similar preparations based on rosin, resin acids or vegetable pitch (excl. burgundy pitch, yellow pitch, stearin pitch, fatty acid pitch, fatty tar and glycerin pitch)
3809	Finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs and other products and preparations such as dressings and mordants of a kind used in the textile, paper, leather or like industries, n.e.s.

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CN code	Description
3810	Pickling preparations for metal surfaces; fluxes and other auxiliary preparations for soldering, brazing or welding; soldering, brazing or welding pastes and powders consisting of metal and other materials; preparations of a kind used as coatings or cores for welding electrodes or rods
3811	anti-knock preparations, oxidation inhibitors, gum inhibitors, viscosity improvers, anti-corrosive preparations and other prepared additives, for mineral oils, incl. gasoline, or for other liquids used for the same purposes as mineral oils
3812 20	compound plasticisers for rubber or plastics, n.e.s.
3813	preparations and charges for fire-extinguishers; charged fire-extinguishing grenades (excl. full or empty fire-extinguishing devices, whether or not portable, unmixed chemically undefined products with fire-extinguishing properties in other forms)
3814	organic composite solvents and thinners, n.e.s.; prepared paint or varnish removers (excl. nail varnish remover)
3815	Reaction initiators, reaction accelerators and catalytic preparations, n.e.s. (excl. rubber accelerators)
3816 00 10	Dolomite ramming mix
3817	mixed alkylbenzenes and mixed alkyl-naphthalenes produced by the alkylation of benzene and naphthalene (excl. mixed isomers of cyclic hydrocarbons)
3819	hydraulic brake fluids and other prepared liquids for hydraulic transmission not containing petroleum oil or bituminous mineral oil, or containing < 70 % petroleum oil or bituminous mineral oil by weight
3820	anti-freezing preparations and prepared de-icing fluids (excl. prepared additives for mineral oils or other liquids used for the same purposes as mineral oils)
3823 13	tall oil fatty acids, industrial
3827 90	Mixtures containing halogenated derivatives of methane, ethane or propane (excl. those of subheadings 3824 71 00 to 3824 78 00)
3824 81	mixtures and preparations containing oxirane 'ethylene oxide'
3824 84	mixtures and preparations containing aldrin (iso), camphechlor (iso) 'toxaphene', chlordane (iso), chlordecone (iso), ddt (iso) 'clofenotane (inn), 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane', dieldrin 'iso, inn', endosulfan (iso), endrin (iso), heptachlor (iso) or mirex (iso)
3824 99	chemical products and preparations of the chemical or allied industries, incl. those consisting of mixtures of natural products, n.e.s.
3825 90	residual products of the chemical or allied industries, n.e.s. (excl. waste)
3826	biodiesel and mixtures thereof, not containing or containing < 70 % by weight of petroleum oils or oils obtained from bituminous minerals
3901 40	ethylene-alpha-olefin copolymers, having a specific gravity of < 0,94, in primary forms
3902 20	polyisobutylene, in primary forms
3902 30	propylene copolymers, in primary forms
3902 90	polymers of propylene or of other olefins, in primary forms (excl. polypropylene, polyisobutylene and propylene copolymers)

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CN code	Description
3903 19	polystyrene, in primary forms (excl. expansible)
3903 90	polymers of styrene, in primary forms (excl. polystyrene, styrene-acrylonitrile copolymers 'san' and acrylonitrile-butadiene-styrene 'abs')
3904 10	poly'vinyl chloride', in primary forms, not mixed with any other substances
3904 50	vinylidene chloride polymers, in primary forms
3905	Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers, in primary forms
3906	Acrylic polymers, in primary forms
3907 21	polyethers, in primary forms (excl. polyacetals and goods of 3002 10)
3907 40	polycarbonates, in primary forms
3907 70	poly'lactic acid', in primary forms
3907 91	unsaturated polyallyl esters and other polyesters, in primary forms (excl. polycarbonates, alkyd resins, poly'ethylene terephthalate' and poly'lactic acid')
3908	Polyamides, in primary forms
3909 20	melamine resins, in primary forms
3909 39	amino-resins, in primary forms (excl. urea, thiourea and melamine resins and mdi)
3909 40	phenolic resins, in primary forms
3909 50	polyurethanes, in primary forms
3912 11	non-plasticised cellulose acetates, in primary forms
3912 90	cellulose and chemical derivatives thereof, n.e.s., in primary forms (excl. cellulose acetates, cellulose nitrates and cellulose ethers)
3915 20	waste, parings and scrap, of polymers of styrene
3917 10	artificial guts 'sausage casings' of hardened protein or cellulose materials
3917 23	rigid tubes, pipes and hoses, of polymers of vinyl chloride
3917 31	flexible tubes, pipes and hoses, of plastics, burst pressure $\geq 27,6$ mpa
3917 32	flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, without fittings
3917 33	flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, with fittings, seals or connectors
3920 10	plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)

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CN code	Description
3920 61	plates, sheets, film, foil and strip, of non-cellular polycarbonates, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly‘methyl methacrylate’, self-adhesive products, and floor, wall and ceiling coverings of heading 3918)
3920 69	plates, sheets, film, foil and strip, of non-cellular polyesters, not reinforced, laminated, supported or similarly combined with other materials, not worked or only surface-worked, or only cut to rectangular, incl. square, shapes (excl. polycarbonates, polythylene terephthalate and other unsaturated polyesters, self-adhesive products, and floor, wall and ceiling coverings in heading 3918)
3920 73	plates, sheets, film, foil and strip, of non-cellular cellulose acetates, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)
3920 91	plates, sheets, film, foil and strip, of non-cellular poly‘vinyl butyral’, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)
3921 19	plates, sheets, film, foil and strip, of cellular plastic, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of polymers of styrene, vinyl chloride, polyurethanes and regenerated cellulose, self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006 10 30)
3922 90	bidets, lavatory pans, flushing cisterns and similar sanitary ware, of plastics (excl. baths, shower-baths, sinks, washbasins, lavatory seats and covers)
3925 20	doors, windows and their frames and thresholds for doors, of plastics
4002	Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of natural rubber, balata, gutta-percha, guayule, chicle or similar types of natural rubber with synthetic rubber or factice, in primary forms or in plates, sheets or strip
4005	Compounded rubber, unvulcanised, in primary forms or in plates, sheets or strip
4006 10	‘camel-back’ strips of unvulcanised rubber, for retreading rubber tyres
4008 21	plates, sheets and strip, of non-cellular rubber
4009 12	tubes, pipes and hoses, of vulcanised rubber (excl. hard rubber), not reinforced or otherwise combined with other materials, with fittings
4009 41	tubes, pipes and hoses, of vulcanised rubber (excl. hard rubber), reinforced or otherwise combined with materials other than metal or textile materials, without fittings
4010	Conveyor or transmission belts or belting, of vulcanised rubber
4011 20	New pneumatic tyres, of rubber, of a kind used for buses and lorries
4012	Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber
4016 93	gaskets, washers and other seals, of vulcanised rubber (excl. hard rubber and those of cellular rubber)

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CN code	Description
4407	wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of > 6 mm
4408 10	sheets for veneering, incl. those obtained by slicing laminated wood, for coniferous plywood or for other similar laminated coniferous wood and other coniferous wood, sawn lengthwise, sliced or peeled, whether or not planed, sanded, spliced or end-jointed, of a thickness of ≤ 6 mm
4411 13	medium density fibreboard 'mdf' of wood, of a thickness > 5 mm but ≤ 9 mm
4411 94	fibreboard of wood or other ligneous materials, whether or not agglomerated with resins or other organic bonding agents, of a density of ≤ 0,5 g/cm ³ (excl. medium density fibreboard 'mdf'; particle board, whether or not bonded with one or more sheets of fibreboard; laminated wood with a layer of plywood; cellular wood panels of which both sides are fibreboard; paperboard; identifiable furniture components)
4412	Plywood, veneered panel and similar laminated wood
4416	casks, barrels, vats, tubs and other coopers' products parts thereof, of wood, incl. staves
4418 40	wooden shuttering for concrete constructional work (excl. plywood boarding)
4418 60	posts and beams, of wood
4418 79	flooring panels, assembled, of wood other than bamboo (excl. multilayer panels and panels for mosaic floors)
4503	Articles of natural cork
4504	Agglomerated cork (with or without a binding substance) and articles of agglomerated cork
4701	Mechanical wood pulp, not chemically treated
4703	Chemical wood pulp, soda or sulphate (excl. dissolving grades)
4704	Chemical wood pulp, sulphite (excl. dissolving grades)
4705	wood pulp obtained by a combination of mechanical and chemical pulping processes
4706	Pulps of fibres derived from recovered (waste and scrap) paper or paperboard or of other fibrous cellulosic material
4707	Recovered (waste and scrap) paper or paperboard
4802 20	paper and paperboard of a kind used as a base for photosensitive, heat-sensitive or electro-sensitive paper and paperboard, uncoated, in rolls or in square or rectangular sheets, of any size
4802 40	wallpaper base, uncoated
4802 58	uncoated paper and paperboard, of a kind used for writing, printing or other graphic purposes, and non-perforated punchcards and punch-tape paper, in rolls or in square or rectangular sheets, of any size, not containing fibres obtained by a mechanical or chemi-mechanical process or of which ≤ 10 % by weight of the total fibre content consists of such fibres, weighing > 150 g/m ² , n.e.s.

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CN code	Description
4802 61	uncoated paper and paperboard, of a kind used for writing, printing or other graphic purposes, and non-perforated punchcards and punch-tape paper, in rolls of any size, of which > 10 % by weight of the total fibre content consists of fibres obtained by a mechanical or chemi-mechanical process, n.e.s.
4804	Uncoated kraft paper and paperboard, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state (excl. goods of heading 4802 or 4803)
4805	Other paper and paperboard, uncoated, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state, not worked other than as specified in note 3 to this chapter, n.e.s.
4806	Vegetable parchment, greaseproof papers, tracing papers and glassine and other glazed transparent or translucent papers, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state
4807	Composite paper and paperboard 'made by sticking flat layers of paper or paperboard together with an adhesive', not surface-coated or impregnated, whether or not internally reinforced, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state
4808	Corrugated paper and paperboard 'with or without glued flat surface sheets', creped, crinkled, embossed or perforated, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state (excl. goods of heading 4803)
4809	Carbon paper, self-copy paper and other copying or transfer papers, incl. coated or impregnated paper for duplicator stencils or offset plates, whether or not printed, in rolls of a width > 36 cm or in square or rectangular sheets with one side > 36 cm and the other side > 15 cm in the unfolded state
4810	Paper and paperboard, coated on one or both sides with kaolin 'china clay' or other inorganic substances, with or without a binder, and with no other coating, whether or not surface-coloured, surface-decorated or printed, in rolls or in square or rectangular sheets, of any size (excl. all other coated papers and paperboards)
4811 10	tarred, bituminised or asphalted paper and paperboard, in rolls or in square or rectangular sheets, of any size
4811 51	paper and paperboard, surface-coloured, surface-decorated or printed, coated, impregnated or covered with artificial resins or plastics, in rolls or in square or rectangular sheets, of any size, bleached and weighing > 150 g/m ² (excl. adhesives)
4811 59	paper and paperboard, surface-coloured, surface-decorated or printed, coated, impregnated or covered with artificial resins or plastics, in rolls or in square or rectangular sheets, of any size (excl. bleached and weighing > 150 g/m ² , and adhesives)
4811 60	paper and paperboard, coated, impregnated or covered with wax, paraffin wax, stearin, oil or glycerol, in rolls or in square or rectangular sheets, of any size (excl. goods of heading 4803, 4809 and 4818)
4811 90	paper, paperboard, cellulose wadding and webs of soft cellulose, coated, impregnated, covered, surface-coloured, surface-decorated or printed, in rolls or in square or rectangular sheets, of any size (excl. goods of heading 4803, 4809, 4810 and 4818, and of subheading 4811 10 to 4811 60)

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CN code	Description
4814 90	wallpaper and similar wallcoverings of paper, and window transparencies of paper (excl. wallcoverings of paper, consisting of paper coated or covered, on the face side, with a grained, embossed, coloured or design-printed or otherwise decorated layer of plastics)
4819 20	folding cartons, boxes and cases, of non-corrugated paper or paperboard
4822	Bobbins, spools, cops and similar supports of paper pulp, paper or paperboard, whether or not perforated or hardened
4823	Paper, paperboard, cellulose wadding and webs of cellulose fibres, in strips or rolls of a width ≤ 36 cm, in rectangular or square sheets of which no side > 36 cm in the unfolded state, or cut to shape other than rectangular or square, and articles of paper pulp, paper, paperboard, cellulose wadding or webs or cellulose fibres, n.e.s
4906	Plans and drawings for architectural, engineering, industrial, commercial, topographical or similar purposes, being originals drawn by hand; handwritten texts; photographic reproductions on sensitised paper and carbon copies of the foregoing
5105	Wool and fine or coarse animal hair, carded or combed, incl. combed wool in fragments
5106	Carded wool yarn (excl. that put up for retail sale)
5107	Yarn of combed wool (excl. that put up for retail sale)
5112	Woven fabrics of combed wool or of combed fine animal hair (excl. fabrics for technical purposes of heading 5911)
5205	Cotton yarn other than sewing thread, containing ≥ 85 % cotton by weight (excl. that put up for retail sale)
5206 42	multiple 'folded' or cabled cotton yarn containing predominantly, but < 85 % cotton by weight, of combed fibres and with a linear density of 232,56 decitex to $< 714,29$ decitex 'mn 14 to mn 43' per single yarn (excl. sewing thread and yarn put up for retail sale)
5209 11	plain woven fabrics of cotton, containing ≥ 85 % cotton by weight and weighing > 200 g/m ² , unbleached
5211	Woven fabrics of cotton, containing predominantly, but < 85 % cotton by weight, mixed principally or solely with man-made fibres and weighing > 200 g/m ²
5308	Yarn of other vegetable textile fibres; paper yarn
5402 63	multiple 'folded' or cabled filament yarn of polypropylene, incl. monofilament of < 67 decitex (excl. sewing thread, yarn put up for retail sale and textured yarn)
5403	Artificial filament yarn, incl. artificial monofilament of < 67 decitex (excl. sewing thread and yarn put up for retail sale)
5404	Synthetic monofilament of ≥ 67 decitex and with a cross sectional dimension of ≤ 1 mm; strip and the like, e.g. artificial straw, of synthetic textile material, with an apparent width of ≤ 5 mm
5407 30	woven fabrics of synthetic filament yarn, incl. monofilament of ≥ 67 decitex and with a cross sectional dimension of ≤ 1 mm, consisting of layers of parallel textile yarns superimposed on each other at acute or right angles, the layers being bonded at the intersections of the yarns by an adhesive or by thermal bonding
5501	Synthetic filament tow as specified in note 1 to chapter 55

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CN code	Description
5502	Artificial filament tow as specified in note 1 to chapter 55
5503	Synthetic staple fibres, not carded, combed or otherwise processed for spinning
5504 90	artificial staple fibres, not carded, combed or otherwise processed for spinning (excl. those of viscose rayon)
5506	Synthetic staple fibres, carded, combed or otherwise processed for spinning
5507	Artificial staple fibres, carded, combed or otherwise processed for spinning
5512 21	woven fabrics containing ≥ 85 % acrylic or modacrylic staple fibres by weight, unbleached or bleached
5512 99	woven fabrics containing ≥ 85 % synthetic staple fibres by weight, dyed, made of yarn of different colours or printed (excl. those of acrylic, modacrylic or polyester staple fibres)
5516	woven fabrics of artificial staple fibres
5601 29	wadding of textile materials and articles thereof (excl. of cotton or man-made fibres; sanitary towels and tampons, napkins and napkin liners for babies and similar sanitary articles, wadding and articles thereof, impregnated or covered with medicated substances or put up for retail for medical, surgical, dental or veterinary purposes, or impregnated, coated or covered with perfumes, make-up, soaps, cleansing agents, etc.)
5601 30	textile flock and dust and mill neps
5604	Textile-covered rubber thread and cord; textile yarn, strip and the like of heading 5404 and 5405, impregnated, coated, covered or sheathed with rubber or plastics (excl. imitation catgut, thread and cord with fish-hook attachments or otherwise put up as fishing line)
5605	Metallised yarn, whether or not gimped, being textile yarn, or strip or the like of heading 5404 or 5405, of textile fibres, combined with metal in the form of thread, strip or powder or covered with metal (excl. yarns manufactured from a mixture of textile fibres and metal fibres, with anti-static properties; yarns reinforced with metal wire; articles with the character of trimmings)
5607 41	binder or baler twine, of polyethylene or polypropylene
5801 27	warp pile fabrics, of cotton (excl. terry towelling and similar woven terry fabrics, tufted textile fabrics and narrow woven fabrics of heading 5806)
5803	Gauze (excl. narrow woven fabrics of heading 5806)
5806 40	narrow fabrics consisting of warp without weft assembled by means of an adhesive 'bolducs', with a width of ≤ 30 cm
5901	Textile fabrics coated with gum or amylaceous substances, of a kind used for the outer covers of books, the manufacture of boxes and articles of cardboard or the like; tracing cloth; prepared painting canvas; buckram and similar stiffened textile fabrics of a kind used for hat foundations (excl. plastic-coated textile fabrics)
5905	Textile wallcoverings
5908	Textile wicks, woven, plaited or knitted, for lamps, stoves, lighters, candles or the like; incandescent gas mantles and tubular knitted gas-mantle fabric for incandescent gas mantles, whether or not impregnated (excl. wax-covered wicks of the taper variety, fuses and detonating fuses, wicks in the form of textile yarn and glass-fibre wicks)

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CN code	Description
5910	Transmission or conveyor belts or belting, of textile material, whether or not impregnated, coated, covered or laminated with plastics, or reinforced with metal or other material (excl. those of a thickness of < 3 mm and of indeterminate length or cut to length only, and those impregnated, coated, covered or laminated with rubber or made of yarn or cord impregnated or coated with rubber)
5911 10	textile fabrics, felt and felt-lined woven fabrics, coated, covered or laminated with rubber, leather or other material, of a kind used for card clothing, and similar fabrics of a kind used for other technical purposes, incl. narrow fabrics made of velvet impregnated with rubber, for covering weaving spindles 'weaving beams'
5911 31	textile fabrics and felts, endless or fitted with linking devices, of a kind used in papermaking or similar machines, e.g. for paper pulp or asbestos-cement, weighing < 650 g/m ²
5911 32	textile fabrics and felts, endless or fitted with linking devices, of a kind used in papermaking or similar machines, e.g. for paper pulp or asbestos-cement, weighing ≥ 650 g/m ²
5911 40	straining cloth of a kind used in oil-presses or for similar technical purposes, incl. that of human hair
6001 99	pile fabrics, knitted or crocheted (excl. cotton or man-made fibres and 'long pile' fabrics)
6003	Knitted or crocheted fabrics, of a width ≤ 30 cm (excl. those containing by weight ≥ 5 % of elastomeric yarn or rubber thread, and pile fabrics, incl. 'long pile', looped pile fabrics, labels, badges and similar articles, and knitted or crocheted fabrics, impregnated, coated, covered or laminated)
6005 36	unbleached or bleached warp knit fabrics of synthetic fibres 'incl. those made on galloon knitting machines', of a width of > 30 cm (excl. those containing by weight ≥ 5 % of elastomeric yarn or rubber thread, and pile fabrics, incl. 'long pile', looped pile fabrics, labels, badges and similar articles, and knitted or crocheted fabrics, impregnated, coated, covered or laminated)
6005 44	printed warp knit fabrics of artificial fibres 'incl. those made on galloon knitting machines', of a width of > 30 cm (excl. those containing by weight ≥ 5 % of elastomeric yarn or rubber thread, and pile fabrics, incl. 'long pile', looped pile fabrics, labels, badges and similar articles, and knitted or crocheted fabrics, impregnated, coated, covered or laminated)
6006 10	fabrics, knitted or crocheted, of a width of > 30 cm, of wool or fine animal hair (excl. warp knit fabrics 'incl. those made on galloon knitting machines', those containing by weight ≥ 5 % of elastomeric yarn or rubber thread, and pile fabrics, incl. 'long pile', looped pile fabrics, labels, badges and similar articles, and knitted or crocheted fabrics, impregnated, coated, covered or laminated)
6309	Worn clothing and clothing accessories, blankets and travelling rugs, household linen and articles for interior furnishing, of all types of textile materials, incl. all types of footwear and headgear, showing signs of appreciable wear and presented in bulk or in bales, sacks or similar packings (excl. carpets, other floor coverings and tapestries)
6802 92	calcareous stone, in any form (excl. marble, travertine and alabaster, tiles, cubes and similar articles of subheading 6802 10, imitation jewellery, clocks, lamps and lighting fittings and parts thereof, original sculptures and statuary, setts, curbstones and flagstones)
6804 23	millstones, grindstones, grinding wheels and the like, without frameworks, for sharpening, polishing, trueing or cutting, of natural stone (excl. of agglomerated natural abrasives or ceramics, perfumed pumice stones, hand sharpening or polishing stones, and grinding wheels etc. specifically for dental drill engines)

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CN code	Description
6806	Slag-wool, rock-wool and similar mineral wools; exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials; mixtures and articles of heat-insulating, sound-insulating or soundabsorbing mineral materials, other than those of heading 6811 or 6812 or of Chapter 69
6807	Articles of asphalt or of similar materials, e.g. petroleum bitumen or coal tar pitch
6809 19	boards, sheets, panels, tiles and similar articles, of plaster or compositions based on plaster (excl. ornamented, faced or reinforced with paper or paperboard only, and with plaster agglomerated articles for heat-insulation, sound-insulation or sound absorption)
6810 91	prefabricated structural components for building or civil engineering of cement, concrete or artificial stone, whether or not reinforced
6811	Articles of asbestos-cement, cellulose fibre-cement or the like
6813	Friction material and articles thereof, e.g., sheets, rolls, strips, segments, discs, washers, pads, not mounted, for brakes, clutches or the like, with a basis of asbestos, other mineral substances or cellulose, whether or not combined with textile or other materials (excl. mounted friction material)
6814 90	worked mica and articles of mica (excl. electrical insulators, insulating fittings, resistors and capacitors, protective goggles of mica and their glasses, mica in the form of christmas tree decorations, and plates, sheets and strips of agglomerated or reconstituted mica, whether or not on supports)
6901	bricks, blocks, tiles and other ceramic goods of siliceous fossil meals, e.g. kieselguhr, tripolite or diatomite, or of similar siliceous earths
6904 10	building bricks (excl. those of siliceous fossil meals or similar siliceous earths, and refractory bricks of heading 6902)
6905	Roofing tiles, chimney pots, cowls, chimney liners, architectural ornaments and other ceramic constructional goods
6906 00	ceramic pipes, conduits, guttering and pipe fittings (excl. of siliceous fossil meals or similar siliceous earths, refractory ceramic goods, chimney liners, pipes specifically manufactured for laboratories, insulating tubing and fittings and other piping for electrotechnical purposes)
6907 22	ceramic flags and paving, hearth or wall tiles, of a water absorption coefficient by weight > 0,5 % but ≤ 10 % (excl. mosaic cubes and finishing ceramics)
6907 40	finishing ceramics
6909 90	ceramic troughs, tubs and similar receptacles of a kind used in agriculture; ceramic pots, jars and similar articles of a kind used for the conveyance or packing of goods (excl. general-purpose storage vessels for laboratories, containers for shops and household articles)
7002	Glass in balls (other than microspheres of heading 7018), rods or tubes, unworked
7003	Cast glass and rolled glass, in sheets or profiles, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked
7004	Sheets of glass, drawn or blown, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked
7005	Float glass and surface ground or polished glass, in sheets, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked

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CN code	Description
7007 11	toughened 'tempered' safety glass, of size and shape suitable for incorporation in motor vehicles, aircraft, spacecraft, vessels and other vehicles
7007 29	laminated safety glass (excl. glass of size and shape suitable for incorporation in motor vehicles, aircraft, spacecraft, vessels or other vehicles, multiple-walled insulating units)
7011 10	glass envelopes, incl. bulbs and tubes, open, and glass parts thereof, without fittings, for electric lighting
7202 92	ferro-vanadium
7207	Semi-finished products of iron or non-alloy steel
7208	Flat-rolled products of iron or non-alloy steel, of a width \geq 600 mm, hot-rolled, not clad, plated or coated
7209	Flat-rolled products of iron or non-alloy steel, of a width of \geq 600 mm, cold-rolled 'cold-reduced', not clad, plated or coated
7210	Flat-rolled products of iron or non-alloy steel, of a width \geq 600 mm, hot-rolled or cold-rolled 'cold-reduced', clad, plated or coated
7211	Flat-rolled products of iron or non-alloy steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced', not clad, plated or coated
7212	Flat-rolled products of iron or non-alloy steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced', clad, plated or coated
7213	Bars and rods of iron or non-alloy steel, hot-rolled, in irregularly wound coils
7215 50	bars and rods, of iron or non-alloy steel, not further worked than cold-formed or cold-finished (excl. of free-cutting steel)
7216	Angles, shapes and sections of iron or non-alloy steel
7218	stainless steel in ingots or other primary forms (excl. remelting scrap ingots and products obtained by continuous casting); semi-finished products of stainless steel
7219	Flat-rolled products of stainless steel, of a width of \geq 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7220	Flat-rolled products of stainless steel, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7222 30	other bars and rods of stainless steel, cold-formed or cold-finished and further worked, or not further worked than forged, or forged, or hot-formed by other means and further worked
7224	Steel, alloy, other than stainless, in ingots or other primary forms, semi-finished products of alloy steel other than stainless (excl. waste and scrap in ingot form, and products obtained by continuous casting)
7225	Flat-rolled products of alloy steel other than stainless, of a width of \geq 600 mm, hot-rolled or cold-rolled 'cold-reduced'
7226	Flat-rolled products of alloy steel other than stainless, of a width of $<$ 600 mm, hot-rolled or cold-rolled 'cold-reduced'

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CN code	Description
7228	Other bars and rods of alloy steel other than stainless, angles, shapes and sections of alloy steel other than stainless, n.e.s.; hollow drill bars and rods, of alloy or non-alloy steel
7229 90	wire of alloy steel other than stainless, in coils (excl. bars and rods and wire of silico-manganese steel)
7301 20	angles, shapes and sections, of iron or steel, welded
7304 24	casing and tubing, seamless, of a kind used for drilling for oil or gas, of stainless steel
7305 39	tubes and pipes having circular cross-sections and an external diameter of > 406,4 mm, of iron or steel, welded (excl. products longitudinally welded or of a kind used for oil or gas pipelines or of a kind used in drilling for oil or gas)
7306 50	Tubes, pipes and hollow profiles, welded, of circular cross-section, of alloy steel other than stainless (excl. tubes and pipes having internal and external circular cross-sections and an external diameter of > 406,4 mm, and line pipe of a kind used for oil or gas pipelines or casing and tubing of a kind used in drilling for oil or gas)
7307 22	Threaded elbows, bends and sleeves
7308	Structures and parts of structures 'e.g., bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns', of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel (excl. prefabricated buildings of heading 9406)
7309	Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment
7310	Tanks, casks, drums, cans, boxes and similar containers, of iron or steel, for any material 'other than compressed or liquefied gas', of a capacity of ≤ 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated, n.e.s
7311	Containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)
7314 12	Endless bands of stainless steel wire, for machinery
7318 24	Cotters and cotter pins, of iron or steel
7320 20	Helical springs, of iron or steel (excl. flat spiral springs, clock and watch springs, springs for sticks and handles of umbrellas or parasols, and shock absorbers of section 17)
7322 90	Air heaters and hot-air distributors, incl. distributors which can also distribute fresh or conditioned air, non-electrically heated, incorporating a motor-driven fan or blower, and parts thereof, of iron or steel
7324 29	baths of steel sheet
7407	Copper bars, rods and profiles
7408	Copper wire
7409	Copper plates, sheets and strip, of a thickness exceeding 0,15 mm
7411 29	tubes and pipes of copper alloys (excl. copper-zinc base alloys 'brass', copper-nickel base alloys 'cupro-nickel' and copper-nickel-zinc base alloys 'nickel silver')

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CN code	Description
7415 21	washers, 'incl. spring washers and spring lock washers', of copper
7505	Nickel bars, rods, profiles and wire
7506	Nickel plates, sheets, strip and foil
7507	Tubes, pipes and tube or pipe fittings 'e.g., couplings, elbows, sleeves', of nickel
7508	Other articles of nickel
7605	Aluminium wire
7606 92	Plates, sheets and strip, of aluminium alloys, of a thickness of > 0,2 mm (other than square or rectangular)
7607 20	Aluminium foil, backed, of a thickness (excl. any backing) of ≤ 0,2 mm (excl. stamping foils of heading 3212, and foil made up as christmas tree decorating material)
7610	Structures and parts of structures 'e.g., bridges and bridge-sections, towers, lattice masts, pillars and columns, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades', of aluminium (excl. prefabricated buildings of heading 9406); plates, rods, profiles, tubes and the like, prepared for use in structures, of aluminium
7611	Reservoirs, tanks, vats and similar containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of > 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated (excl. containers specifically constructed or equipped for one or more types of transport)
7612	Casks, drums, cans, boxes and similar containers, incl. rigid or collapsible tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of ≤ 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated, n.e.s.
7613	Aluminium containers for compressed or liquefied gas
7616 10	Nails, tacks, staples (other than those of heading 8305), screws, bolts, nuts, screw hooks, rivets, cotters, cotter pins, washers and similar articles
7804	Lead plates, sheets, strip and foil; lead powders and flakes
7905	zinc plates, sheets, strip and foil
8001	Unwrought tin
8003	Tin bars, rods, profiles and wire
8007	Articles of tin
8101 10	Tungsten powder
8102	Molybdenum and articles thereof, including waste and scrap
8105 90	Articles of cobalt
8109	Zirconium and articles thereof, including waste and scrap
8202 20	Bandsaw blades of base metal
8207 60	Tools for boring or broaching

▼ **M25**

CN code	Description
8208 10	Knives and cutting blades, for machines or for mechanical appliances - for metalworking
8208 20	Knives and cutting blades, for machines or for mechanical appliances - for wood-working
8208 30	Knives and cutting blades, for machines or for mechanical appliances - used by the food industry
8208 90	Knives and cutting blades, for machines or for mechanical appliances - other
8301 20	Locks used for motor vehicles, of base metal
8301 70	Keys presented separately
8302 30	Other mountings, fittings and similar articles suitable for motor vehicles
8307	Flexible tubing of base metal, with or without fittings
8309	Stoppers, caps and lids, incl. crown corks, screw caps and pouring stoppers, capsules for bottles, threaded bungs, bung covers, seals and other packing accessories, of base metal
8402	Steam or other vapour generating boilers (excl. central heating hot water boilers capable also of producing low pressure steam); superheated water boilers; parts thereof
8404	Auxiliary plant for use with boilers of heading 8402 or 8403, e.g. economizers, superheaters, soot removers and gas recoverers; condensers for steam or other vapour power units; parts thereof
8405	Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers; parts thereof (excl. coke ovens, electrolytic process gas generators and carbide lamps)
8406	Steam turbines and other vapour turbines; parts thereof
8407 21	Spark-ignition outboard motors for marine propulsion
8407 29	Spark-ignition reciprocating or rotary engines, for marine propulsion (excl. outboard motors)
8408	Compression-ignition internal combustion piston engine 'diesel or semi-diesel engine'
8409 99	Parts suitable for use solely or principally with compression-ignition internal combustion piston engine 'diesel or semi-diesel engine', n.e.s.
8410	Hydraulic turbines, water wheels, and regulators therefor (excl. hydraulic power engines and motors of heading 8412)
8412 10	Reaction engines other than turbojets
8412 21	Engines and motors - linear acting (cylinders)
8412 29	Hydraulic power engines and motors - Other
8412 39	Pneumatic power engines and motors - Other
8413 11	pumps fitted or designed to be fitted with a measuring device, for dispensing fuel or lubricants, of the type used in filling stations or in garages

▼ **M25**

CN code	Description
8413 19	pumps for liquids, fitted or designed to be fitted with a measuring device (excl. pumps for dispensing fuel or lubricants, of the type used in filling stations or in garages)
8413 30	fuel, lubricating or cooling medium pumps for internal combustion piston engine
8413 50	reciprocating positive displacement pumps for liquids, power-driven (excl. those of subheading 8413 11 and 8413 19, fuel, lubricating or cooling medium pumps for internal combustion piston engine and concrete pumps)
8413 60	rotary positive displacement pumps for liquids, power-driven (excl. those of subheading 8413 11 and 8413 19 and fuel, lubricating or cooling medium pumps for internal combustion piston engine)
8413 81	pumps for liquids, power-driven (excl. those of subheading 8413 11 and 8413 19, fuel, lubricating or cooling medium pumps for internal combustion piston engine, concrete pumps, general reciprocating or rotary positive displacement pumps and centrifugal pumps of all kinds)
8414 10	vacuum pumps
8414 90	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; gas-tight biological safety cabinets, whether or not fitted with filters - Parts
8415 83	Other air-conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated - not incorporating a refrigerating unit
8416	Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, incl. their mechanical grates, mechanical ash dischargers and similar appliances; parts thereof
8417 20	Bakery ovens, incl. biscuit ovens, non-electric
8419 19	instantaneous or storage water heaters, non-electric (excl. instantaneous gas water heaters and boilers or water heaters for central heating)
8419 40	Distilling or rectifying plant
8419 50	Heat-exchange units (excl. those used with boilers)
8419 89	Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, sterilising, pasteurising, steaming, evaporating, vaporising, condensing or cooling, n.e.s. (excl. machinery used for domestic purposes and furnaces, ovens and other equipment of heading 8514)
8419 90	Parts of machinery, plant and laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature, and of non-electric instantaneous and storage water heaters, n.e.s.
8420 99	Parts of calendering or other rolling machines, other than for metals or glass, and cylinders therefor - Other
ex 8421	Centrifuges, incl. centrifugal dryers (excl. those for isotope separation); filtering or purifying machinery and apparatus, for liquids or gases (excl. such machinery and apparatus for water and other beverages, and excl. artificial kidneys; parts thereof)

▼ **M25**

CN code	Description
8424 89	Mechanical appliances, whether or not hand-operated, for projecting, dispersing or spraying liquids or powders, n.e.s.
8424 90	Parts of fire extinguishers, spray guns and similar appliances, steam or sand blasting machines and similar jet projecting machines and machinery and apparatus for projecting, dispersing or spraying liquids or powders, n.e.s.
8425 11	Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles powered by electric motor
8425 31	Winches and capstans powered by electric motor
8426	Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane
8427	Fork-lift trucks; other works trucks fitted with lifting or handling equipment (excl. straddle carriers and works trucks fitted with a crane)
8428 20	Pneumatic elevators and conveyors
8428 31	Continuous-action elevators and conveyors for goods or materials, for underground use (excl. pneumatic elevators and conveyors)
8428 32	Other continuous-action elevators and conveyors, for goods or materials - Other, bucket type
8428 33	Other continuous-action elevators and conveyors, for goods or materials - Other, belt type
8428 39	Continuous-action elevators and conveyors, for goods or materials (excl. those for underground use and bucket, belt or pneumatic types)
8428 70	Industrial robots
8428 90	Other machinery
8429	Self-propelled bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and roadrollers
8430 10	Piledrivers and pile extractors
8430 39	Coal or rock cutters and tunnelling machinery - Other
8430 50	Self-propelled earth-moving machinery, n.e.s.
8430 69	Earth moving machinery, not self-propelled, n.e.s.
8431 20	Parts of fork-lift trucks and other works trucks fitted with lifting or handling equipment, n.e.s.
8431 39	Parts of machinery of heading 8428, n.e.s.
8431 41	Buckets, shovels, grabs and grips for machinery of heading 8426, 8429 and 8430
8431 49	Parts of machinery of heading 8426, 8429 and 8430, n.e.s.
8439 10	Machinery for making pulp of fibrous cellulosic material
8439 30	Machinery for finishing paper or paperboard

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CN code	Description
8440 90	Bookbinding machinery, including book-sewing machines - Parts
8441 30	Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by moulding
8442 40	Parts of the foregoing machinery, apparatus or equipment
8443 13	Other offset printing machinery
8443 15	Letterpress printing machinery, other than reel fed, excluding flexographic printing
8443 16	Flexographic printing machinery
8443 17	Gravure printing machinery
8443 19	Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442 (excl. hectograph or stencil duplicating machines, addressing machines and other office printing machines of heading 8469 to 8472, ink jet printing machines and offset, flexographic, letterpress and gravure printing machinery)
8443 91	Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442
8444	Machines for extruding, drawing, texturing or cutting man-made textile materials
8448	Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447, e.g. dobbies, jacquards, automatic stop motions, shuttle changing mechanisms; parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447, e.g. spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles
8451 10	Dry-cleaning machines
8451 29	Drying machines - Other
8451 30	Ironing machines and presses (including fusing presses)
8451 90	Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made-up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics - Parts
8453	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather (excl. drying machines, spray guns, machines for the dehairing of pigs, sewing machines and general purpose presses); parts thereof
8454	Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries; parts thereof
8455 22	Cold-rolling mills for metal (excl. tube mills)
8455 30	Rolls for metal-rolling mills
8456 20	Machine tools for working any material by removal of material, operated by ultrasonic processes (excl. cleaning apparatus operated by ultrasonic processes and material testing machines)

▼ M25

CN code	Description
8456 40	Machine tools for working any material by removal of material, operated by plasma arc processes
8457	Machining centres, unit construction machines 'single station' and multi-station transfer machines for working metal
8458	Lathes (including turning centres) for removing metal
8459	Machine tools, incl. way-type unit head machines, for drilling, boring, milling, threading or tapping (excl. lathes and turning centres of heading 8458, gear cutting machines of heading 8461 and hand-operated machines)
8460	Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products (excl. gear cutting, gear grinding or gear finishing machines of heading 8461 and machines for working in the hand)
8461 20	Shaping or slotting machines, for working metals, metal carbides or cermets
8461 30	Broaching machines, for working metals, metal carbides or cermets
8461 40	Gear-cutting, gear-grinding or gear-finishing machines
8461 90	Machine tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting-off and other machine tools working by removing metal or cermets, not elsewhere specified or included - Other
8462	Machine tools (including presses) for working metal by forging, hammering or die forging (excluding rolling mills); machine tools (including presses, slitting lines and cut-to-length lines) for working metal by bending, folding, straightening, flattening, shearing, punching, notching or nibbling (excluding draw-benches); presses for working metal or metal carbides, not specified in previous headings
8463	Machine tools for working metal, sintered metal carbides or cermets, without removing material (excl. forging, bending, folding, straightening and flattening presses, shearing machines, punching or notching machines, presses and machines for working in the hand)
8464	Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold-working glass (excl. machines for working in the hand)
8465 20	Machining centres
8465 93	Grinding, sanding or polishing machines
8465 94	Bending or assembling machines
8465 96	Splitting, slicing or paring machines, for working wood (excl. machining centres)
8466	Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, incl. work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines, n.e.s.; tool holders for any type of tool for working in the hand
8468	Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting (other than those of heading 8515); gas-operated surface tempering machines and appliances; parts thereof

▼ **M25**

CN code	Description
ex 8471	Automatic data-processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included, excluding other units of automatic data-processing machines of CN code 8471 80 and excluding storage units for automatic data-processing machines not elsewhere specified corresponding to the CN code 8471 70 98
8472 10	Duplicating machines
8472 30	Machines for sorting or folding mail or for inserting mail in envelopes or bands, machines for opening, closing or sealing mail and machines for affixing or cancelling postage stamps
8473	Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8470 to 8472
8474 10	Sorting, screening, separating or washing machines
8474 31	Concrete or mortar mixers (excl. those mounted on railway wagons or lorry chassis)
8474 39	Mixing or kneading machines - Other
8474 80	machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand - (excl. those for the casting or pressing of glass)
8475	Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware (excl. furnaces and heating apparatus for manufacturing toughened glass); parts thereof
8477	Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter, parts thereof
8479 10	Machinery for public works, building or the like
8479 30	Presses for the manufacture of particle board or fibre building board of wood or other ligneous materials and other machinery for treating wood or cork
8479 50	Industrial robots, not elsewhere specified or included
8479 81	Machinery for treating metal, incl. electric wire coil-winders, n.e.s. (excl. industrial robots, furnaces, dryers, spray guns and the like, high-pressure cleaning equipment and other jet cleaners, rolling mills or machines, machine tools and rope or cable-making machines)
8479 82	Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines, n.e.s. (excl. industrial robots)
8479 89	Machines and mechanical appliances, n.e.s.
8479 90	Machines and mechanical appliances having individual functions, not specified or included elsewhere in Chapter 84 - Parts
8480 20	Mould bases
8480 30	Moulding patterns
8480 60	Moulds for mineral materials

▼ M25

CN code	Description
8481 10	Pressure-reducing valves
8481 20	Valves for oleohydraulic or pneumatic transmissions
8481 30	Check 'non-return' valves for pipes, boiler shells, tanks, vats or the like
8481 40	Safety or relief valves
8482	Ball or roller bearings (excl. steel balls of heading 7326); parts thereof
8483	Transmission shafts, incl. camshafts and crankshafts, and cranks; bearing housings and plain shaft bearings for machines; gears and gearing; ball or roller screws, gear boxes and other speed changers, incl. torque converters; flywheels and pulleys, incl. pulley blocks, clutches and shaft couplings, incl. universal joints; parts thereof
8484	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals
8486	Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 9c to chapter 84; parts and accessories, n.e.s.
8487	Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in chapter 84
8501 20	universal ac-dc motors of an output > 37,5 W
8501 31	DC motors of an output > 37,5 W but ≤ 750 W and DC generators of an output ≤ 750 W
8501 33	Other DC motors; DC generators, other than photovoltaic generators - of an output exceeding 75 kW but not exceeding 375 kW
8501 53	ac motors, multi-phase, of an output > 75 kW
8501 61	ac generators 'alternators', of an output ≤ 75 kVA
8501 62	AC generators (alternators), other than photovoltaic generators of an output exceeding 75 kVA but not exceeding 375 kVA
8501 63	AC generators (alternators), other than photovoltaic generators of an output exceeding 375 kVA but not exceeding 750 kVA
8501 64	AC generators (alternators), other than photovoltaic generators of an output exceeding 750 kVA
8502	Electric generating sets and rotary converters
8503	Parts suitable for use solely or principally with the machines of heading 8501 or 8502
8504 32	transformers, having a power handling capacity > 1 kVA but ≤ 16 kVA (excl. liquid dielectric transformers)
8504 33	Transformers having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA
8504 34	Transformers having a power handling capacity exceeding 500 kVA

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CN code	Description
8505	Electromagnets (excl. magnets for medical use); permanent magnets and articles intended to become permanent magnets after magnetization; electromagnetic or permanent magnet chucks, clamps and similar holding devices; electromagnetic couplings, clutches and brakes; electromagnetic lifting heads; parts thereof
8506 60	air-zinc cells and batteries (excl. spent)
8506 90	Primary cells and primary batteries - Parts
8507 10	Lead-acid accumulators of a kind used for starting piston engine 'starter batteries' (excl. spent)
8507 20	Lead acid accumulators (excl. spent and starter batteries)
8507 30	Electric accumulators, including separators therefor, whether or not rectangular (including square) - Nickel-cadmium
8511	Electrical ignition or starting equipment of a kind used for spark-ignition or compression-ignition internal combustion engines, e.g. ignition magnetos, magneto-dynamos, ignition coils, sparking plugs, glow plugs and starter motors; generators, e.g. dynamos and alternators, and cut-outs of a kind used in conjunction with such engines; parts thereof
8512 20	Electrical lighting or visual signalling equipment for motor vehicles (excl. lamps of heading 8539)
8512 90	Parts of electrical lighting or signalling equipment, windscreen wipers, defrosters and demisters of a kind used for cycles and motor vehicles, n.e.s.
ex 8514	Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss), excluding bakey and biscuit ovens of line 8514 19 10; other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss
8515 11	Soldering irons and guns, electric
8515 19	Brazing or soldering machines (excl. soldering irons and guns)
8515 21	Fully or partly automatic machines for resistance welding of metals
8515 29	Machines for resistance welding of metals, neither fully nor partly automatic
8516 80	Electric heating resistors (excl. those of agglomerated coal and graphite)
8517 61	Base stations of apparatus for the transmission or reception of voice, images or other data
8523 51	Solid-state, non-volatile data storage devices for recording data from an external source (excl. goods of chapter 37)
8525	Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders
8526	Radar apparatus, radio navigational aid apparatus and radio remote control apparatus
8527 21	Radio-broadcast receivers not capable of operating without an external source of power, of a kind used in motor vehicles, combined with sound recording or reproducing apparatus
8528 49	Cathode-ray tube monitors 'crt' (excl. computer monitors, with tv receiver)

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CN code	Description
8530	Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (excl. mechanical or electromechanical equipment of heading 8608); parts thereof
8532 10	Fixed capacitors designed for use in 50/60 hz circuits and having a reactive power-handling capacity of $\geq 0,5$ kvar 'power capacitors'
8532 29	Fixed electrical capacitors (excl. tantalum, aluminium electrolytic, ceramic, paper, plastic and power capacitors)
8532 30	Variable or adjustable 'pre-set' electrical capacitors
8532 90	Parts of electrical 'pre-set' capacitors, fixed, variable or adjustable, n.e.s.
8533 29	Other fixed resistors – Other
8533 90	Parts of electrical resistors, incl. rheostats and potentiometers, n.e.s.
8534	Printed circuits
8535	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits, e.g., switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes, for a voltage $> 1\,000$ V (excl. control desks, cabinets, panels etc. of heading 8537)
8538	Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537
8539 29	Filament lamps, electric (excl. tungsten halogen lamps, lamps of a power ≤ 200 W and for a voltage > 100 V and ultraviolet or infra-red lamps)
8539 39	Discharge lamps (excl. hot-cathode fluorescent lamps, mercury or sodium vapour lamps, metal halide lamps and ultraviolet lamps)
8539 41	Arc lamps
8539 51	Light-emitting diode (LED) modules
8539 52	Light-emitting diode (LED) lamps
8540	Thermionic, cold cathode or photo-cathode valves and tubes, e.g. vacuum or vapour or gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode ray tubes and television camera tubes; parts thereof
8541 30	Thyristors, diacs and triacs (excl. photosensitive semiconductor devices)
8541 41	Light-emitting diodes (LED)
8541 42	Photovoltaic cells not assembled in modules or made up into panels
8541 43	Photovoltaic cells assembled in modules or made up into panels
8543 10	Particle accelerators
8543 20	Signal generators, electrical
8543 30	Machines and apparatus for electroplating, electrolysis or electrophoresis
8544 11	Winding wire for electrical purposes, of copper, insulated
8544 30	Ignition wiring sets and other wiring sets for vehicles, aircraft or ships

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CN code	Description
8544 49	Electric conductors, for a voltage $\leq 1\,000$ V, insulated, not fitted with connectors, n.e.s.
8544 60	Electric conductors, for a voltage $> 1\,000$ V, insulated, n.e.s.
8544 70	Optical fibre cables made up of individually sheathed fibres, whether or not containing electric conductors or fitted with connectors
8545 20	Carbon brushes for electrical purposes
8547	Insulating fittings for electrical machines, appliances or equipment, being fittings wholly of insulating material apart from any minor components of metal, e.g., threaded sockets, incorporated during moulding solely for purposes of assembly (other than insulators of heading 8546); electrical conduit tubing and joints therefor, of base metal lined with insulating material
8549	Electrical and electronic waste and scrap
8602	Rail locomotives (excl. those powered from an external source of electricity or by accumulators); locomotive tenders
8604	Railway or tramway maintenance or service vehicles, whether or not self-propelled (for example, workshops, cranes, ballast tampers, trackliners, testing coaches and track inspection vehicles)
8606	Railway or tramway goods vans and wagons (excl. self-propelled and luggage vans and post office coaches)
8701 21	Road tractors for semi-trailers - With only compression-ignition internal combustion piston engine (diesel or semi-diesel)
8701 22	Road tractors for semi-trailers - With both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor as motors for propulsion
8701 23	Road tractors for semi-trailers - With both spark-ignition internal combustion piston engine and electric motor as motors for propulsion
8701 24	Road tractors for semi-trailers - With only electric motor for propulsion
8701 30	Track-laying tractors (excl. pedestrian-controlled)
8703 10	Vehicles for the transport of <10 persons on snow; golf cars and similar vehicles
ex 8703 23	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity $>1\,900\text{ cm}^3$ but $\leq 3\,000\text{ cm}^3$ (excluding ambulances)
ex 8703 24	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity $> 3\,000\text{ cm}^3$ (excluding ambulances)
ex 8703 32	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only diesel engine of a cylinder capacity $> 1\,900\text{ cm}^3$ but $\leq 2\,500\text{ cm}^3$ (excluding ambulances)
ex 8703 33	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only diesel engine of a cylinder capacity $> 2\,500\text{ cm}^3$ (excluding ambulances)

▼ M25

CN code	Description
8703 40	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. plug-in hybrids)
8703 50	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. plug-in hybrids)
8703 60	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power
8703 70	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power
8703 80	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only electric motor for propulsion
8703 90	Motor cars and other vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with engines other than internal combustion piston engine or electric motor
ex 8704	Motor vehicles for the transport of goods, incl. chassis with engine and cab, excluding vehicles of CN codes 8704 21 91 and 8704 21 99 with engines of a cylinder capacity not exceeding 1 900 cm ³
8705	Special purpose motor vehicles (other than those principally designed for the transport of persons or goods), e.g. breakdown lorries, crane lorries, fire fighting vehicles, concrete-mixer lorries, road sweeper lorries, spraying lorries, mobile workshops and mobile radiological units
8709 90	Works trucks, self-propelled, not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods; tractors of the type used on railway station platforms; parts of the foregoing vehicles - Parts
8716 20	Self-loading or self-unloading trailers and semi-trailers for agricultural purposes
8716 39	Other trailers and semi-trailers for the transport of goods - Other
8716 90	Parts of trailers and semi-trailers and other vehicles not mechanically propelled, n.e.s.
8903	Yachts and other vessels for pleasure or sports; rowing boats and canoes
9001 10	Optical fibres, optical fibre bundles and cables (excl. made up of individually sheathed fibres of heading 8544)
9002 11	objective lenses for cameras, projectors or photographic enlargers or reducers
9002 19	objective lenses (excl. for cameras, projectors or photographic enlargers or reducers)
9005	Binoculars, monoculars, other optical telescopes, and mountings therefor; other astronomical instruments and mountings therefor (excl. instruments for radio-astronomy and other instruments or apparatus specified elsewhere)
9007	Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus (excl. video equipment)

▼ M25

CN code	Description
9010	Apparatus and equipment for photographic or cinematographic laboratories, not elsewhere specified in chapter 90; negatoscopes; projection screens
9013 10	Telescopic sights for fitting to arms; periscopes; telescopes designed to form parts of machines, appliances, instruments or apparatus of chapter 90 or section XVI
9014	Direction finding compasses; other navigational instruments and appliances (excl. radio navigational equipment); parts thereof
9015	Surveying, incl. photogrammetrical surveying, hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances (excl. compasses); rangefinders
9024	Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials (for example, metals, wood, textiles, paper, plastics); parts thereof
9025 90	Parts and accessories for hydrometers, areometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, n.e.s.
9026	Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 9014, 9015, 9028 or 9032
9027 10	Gas or smoke analysis apparatus
9027 81	Mass spectrometers
9027 89	Instruments and apparatus for physical or chemical analysis, or for measuring or checking viscosity, porosity, expansion, surface tension or the like, or for measuring or checking quantities of heat, sound or light, n.e.s. (excluding mass spectrometers)
9029	Revolution counters, production counters, taximeters, milometers, pedometers and the like (excl. gas, liquid and electricity meters); speed indicators and tachometers (excl. those of heading 9014 and 9015); stroboscopes
9030 32	Multimeters with recording device
9030 39	Instruments and apparatus for measuring or checking voltage, current, resistance or electrical power, with recording device (excl. multimeters, and oscilloscopes and oscillographs)
9030 40	Instruments and apparatus for measuring or checking electrical quantities, specifically for telecommunications, e.g. cross-talk meters, gain measuring instruments, distortion factor meters, psophometers
9030 82	Instruments and apparatus for measuring or checking semiconductor wafers or devices
9030 89	Instruments and apparatus for measuring or checking electrical quantities, without recording device, n.e.s.
9031	Measuring or checking instruments, appliances and machines not elsewhere specified in chapter 90; profile projectors
9032 81	Other automatic regulating or controlling instruments and apparatus - Hydraulic or pneumatic – Other
9401 10	Seats for aircraft
9401 20	Seats for motor vehicles
9403 30	Wooden furniture of a kind used in offices

▼ **M25**

CN code	Description
9406	Prefabricated buildings
9503 00 75	Plastic toys and models, incorporating a motor n.e.s under heading 9503
9503 00 79	Toys and models not made of plastic, incorporating a motor n.e.s under heading 9503
9606	Buttons, press-fasteners, snap-fasteners and press studs, button moulds and other parts of these articles; button blanks (excl. cuff links)
9608 91	Pen nibs and nib points
9612 20	Of man-made fibres, measuring less than 30 mm in width, permanently put in plastic or metal cartridges of a kind used in automatic typewriters, automatic data- processing equipment and other machines
ex 98	Complete industrial plants, except plants for the production of food and drinks, pharmaceuticals, medicines and medical devices

▼ **M13**▼ **C5**

ANNEX XXIV

▼ **M16**

List of goods as referred to in Article 3ea(5)(a)

▼ **M13**

CN code	Name of the good
2810 00 10	Diboron trioxide
2810 00 90	Oxides of boron; boric acids (excluding diboron trioxide)
2812 15 00	Sulphur monochloride
2814 10 00	Anhydrous ammonia
2825 20 00	Lithium oxide and hydroxide
2905 42 00	Pentaerythritol 'pentaerythrite'
2909 19 90	Ethers, acyclic and halogen, sulfo, nitro and nitroso derivatives thereof (excluding diethyl ether and tert-butyl ethyl ether (ethyl tertiary butyl ether, etbe))
3006 92 00	Waste pharmaceuticals
3105 30 00	Diammonium hydrogenorthophosphate (excluding those in tablets or similar forms, or in packages with a gross weight of <= 10 kg)
3105 40 00	Ammonium dihydrogenorthophosphate and mixtures thereof with diammonium hydrogenorthophosphate (excluding those in tablets or similar forms, or in packages with a gross weight of <= 10 kg).
3811 19 00	Anti-knock agents for petrol (excluding those based on lead compounds)
ex 7203	Direct reduced iron or other spongy iron
ex 7204	Ferrous scrap

▼ M20*ANNEX XXV***List of crude oil and petroleum products referred to in Articles 3m and 3n**

CN Code	Description
ex 2709 00	Petroleum oils and oils obtained from bituminous minerals, crude other than natural gas condensates of subheading CN 2709 00 10 from liquefied natural gas production plants.
2710	Petroleum oils and oils obtained from bituminous minerals, other than crude; preparations not elsewhere specified or included, containing by weight 70 % or more of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations; waste oils

▼M16*ANNEX XXVI***List of goods as referred to in article 3o(1) and (2)**

	CN code	Name of the good
	7108	Gold (including gold plated with platinum), unwrought or in semi-manufactured forms, or in powder form
	7112 91	Waste and scrap of gold, including metal clad with gold but excluding sweepings containing other precious metals
Ex	7118 90	Gold coins

▼M16*ANNEX XXVII***List of goods as referred to in article 3o(3)**

	CN code	Name of the good
Ex	7113	Articles of jewellery and parts thereof, of gold or containing gold, or of metal clad with gold
Ex	7114	Articles of goldsmiths' or silversmiths' wares and parts thereof, of gold, containing gold, or of metal clad with gold

▼ **M17***ANNEX XXVIII***Prices referred to in Article 3n(6)(a)**▼ **M23****Price for crude oil**▼ **M19**

CN Code	Description	Price per barrel (USD)	Date of application
2709 00	Petroleum oils and oils obtained from bituminous minerals, crude	60	5 December 2022

▼ **M23****Prices for petroleum products**

CN Code	Description	Premium to crude oil/ Discount to crude oil	Price per barrel (USD)	Date of application
	Petroleum oils and oils obtained from bituminous minerals (other than crude) and preparations not elsewhere specified or included, containing by weight 70 % or more of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations, other than those containing biodiesel and other than waste oils			
2710 12	Light oils and preparations			
2710 12 11	For undergoing a specific process	Discount to crude oil	45	5 February 2023
2710 12 15	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 12 11	Discount to crude oil	45	5 February 2023
	For other purposes Special spirits			
2710 12 21	White spirit	Discount to crude oil	45	5 February 2023
2710 12 25	Other	Discount to crude oil	45	5 February 2023
	Other Motor spirit			
2710 12 31	Aviation spirit	Premium to crude oil	100	5 February 2023
	Other, with a lead content Not exceeding 0,013 g per litre			
2710 12 41	With an octane number (RON) of less than 95	Premium to crude oil	100	5 February 2023
2710 12 45	With an octane number (RON) of 95 or more but less than 98	Premium to crude oil	100	5 February 2023

▼ **M23**

CN Code	Description	Premium to crude oil/ Discount to crude oil	Price per barrel (USD)	Date of application
2710 12 49	With an octane number (RON) of 98 or more	Premium to crude oil	100	5 February 2023
2710 12 50	Exceeding 0,013 g per litre	Premium to crude oil	100	5 February 2023
2710 12 70	Spirit type jet fuel	Premium to crude oil	100	5 February 2023
2710 12 90	Other light oils	Premium to crude oil	100	5 February 2023
2710 19	Other			
	Medium oils			
2710 19 11	For undergoing a specific process	Premium to crude oil	100	5 February 2023
2710 19 15	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 11	Premium to crude oil	100	5 February 2023
	For other purposes Kerosene			
2710 19 21	Jet fuel	Premium to crude oil	100	5 February 2023
2710 19 25	Other	Premium to crude oil	100	5 February 2023
2710 19 29	Other	Premium to crude oil	100	5 February 2023
	Heavy oils Gas oils			
2710 19 31	For undergoing a specific process	Premium to crude oil	100	5 February 2023
2710 19 35	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 31	Premium to crude oil	100	5 February 2023
	For other purposes			
2710 19 43	With a sulphur content not exceeding 0,001 % by weight	Premium to crude oil	100	5 February 2023
2710 19 46	With a sulphur content exceeding 0,001 % by weight but not exceeding 0,002 % by weight	Premium to crude oil	100	5 February 2023
2710 19 47	With a sulphur content exceeding 0,002 % by weight but not exceeding 0,1 % by weight	Premium to crude oil	100	5 February 2023
2710 19 48	With a sulphur content exceeding 0,1 % by weight	Premium to crude oil	100	5 February 2023

▼ **M23**

CN Code	Description	Premium to crude oil/ Discount to crude oil	Price per barrel (USD)	Date of application
	Fuel oils			
2710 19 51	For undergoing a specific process	Discount to crude oil	45	5 February 2023
2710 19 55	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 51	Discount to crude oil	45	5 February 2023
	For other purposes			
2710 19 62	With a sulphur content not exceeding 0,1 % by weight	Discount to crude oil	45	5 February 2023
2710 19 66	With a sulphur content exceeding 0,1 % by weight but not exceeding 0,5 % by weight	Discount to crude oil	45	5 February 2023
2710 19 67	With a sulphur content exceeding 0,5 % by weight	Discount to crude oil	45	5 February 2023
	Lubricating oils; other oils			
2710 19 71	For undergoing a specific process	Premium to crude oil	100	5 February 2023
2710 19 75	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 71	Discount to crude oil	45	5 February 2023
	For other purposes			
2710 19 81	Motor oils, compressor lube oils, turbine lube oils	Discount to crude oil	45	5 February 2023
2710 19 83	Hydraulic oils	Discount to crude oil	45	5 February 2023
2710 19 85	White oils, liquid paraffin	Discount to crude oil	45	5 February 2023
2710 19 87	Gear oils and reductor oils	Discount to crude oil	45	5 February 2023
2710 19 91	Metal-working compounds, mould-release oils, anti-corrosion oils	Discount to crude oil	45	5 February 2023
2710 19 93	Electrical insulating oils	Discount to crude oil	45	5 February 2023
2710 19 99	Other lubricating oils and other oils	Discount to crude oil	45	5 February 2023

▼ **M23**

CN Code	Description	Premium to crude oil/ Discount to crude oil	Price per barrel (USD)	Date of application
2710 20	Petroleum oils and oils obtained from bituminous minerals (other than crude) and preparations not elsewhere specified or included, containing by weight 70 % or more of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations, containing biodiesel, other than waste oils			
	Gas oils			
2710 20 11	With a sulphur content not exceeding 0,001 % by weight	Premium to crude oil	100	5 February 2023
2710 20 16	With a sulphur content exceeding 0,001 % by weight but not exceeding 0,1 % by weight	Premium to crude oil	100	5 February 2023
2710 20 19	With a sulphur content exceeding 0,1 % by weight	Premium to crude oil	100	5 February 2023
	Fuel oils			
2710 20 32	With a sulphur content not exceeding 0,5 % by weight	Discount to crude oil	45	5 February 2023
2710 20 38	With a sulphur content exceeding 0,5 % by weight	Discount to crude oil	45	5 February 2023
2710 20 90	Other oils	Discount to crude oil	45	5 February 2023
	Waste oils			
2710 91	Containing polychlorinated biphenyls (PCBs), polychlorinated terphenyls (PCTs) or polybrominated biphenyls (PBBs)	Discount to crude oil	45	5 February 2023
2710 99	Other	Discount to crude oil	45	5 February 2023

▼ **M25***ANNEX XXIX***List of projects referred to in Article 3n(6)(c)**

Scope of exemption	Date of application	Date of expiration
The transport by vessel to Japan, the technical assistance, brokering services, financing or financial assistance related to such transport, of crude oil falling under CN 2709 00 commingled with condensate, originating in the Sakhalin-2 (Сахалин-2) Project, located in Russia	5 December 2022	31 March 2024

▼ M20*ANNEX XXX***List of goods referred to in Article 3a**

Aluminium, including bauxite

Chromium

Cobalt

Copper

Iron ore

Mineral fertilisers, including potash and phosphate rock

Molybdenum

Nickel

Palladium

Rhodium

Scandium

Titanium

Vanadium

Heavy rare earths (dysprosium, erbium, europium, gadolinium, holmium, lutetium, terbium, thulium, ytterbium, yttrium).

Light rare earths (cerium, lanthanum, neodymium, praseodymium and samarium)

▼ **M20**

ANNEX XXXI

List of petroleum products referred to in Article 3m paragraph 7 and 8

CN Code	Description
	Gas oils
2710 19 31	For undergoing a specific process
2710 19 35	For undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 31
	For other purposes
2710 19 43	With a sulphur content not exceeding 0,001 % by weight
2710 19 46	With a sulphur content exceeding 0,001 % by weight but not exceeding 0,002 % by weight
2710 19 47	With a sulphur content exceeding 0,002 % by weight but not exceeding 0,1 % by weight
2710 19 48	With a sulphur content exceeding 0,1 % by weight
2710 20 11	With a sulphur content not exceeding 0,001 % by weight
2710 20 16	With a sulphur content exceeding 0,001 % by weight but not exceeding 0,1 % by weight
2710 20 19	With a sulphur content exceeding 0,1 % by weight
	Light oils and preparations
2710 12 11	Light oils and preparations for undergoing a specific process
2710 12 15	Light oils and preparations for undergoing chemical transformation by a process other than those specified in respect of subheading 2710 12 11
	Light oils and preparations for other purposes than specified in subheadings 2710 12 11 and 2710 12 15
2710 12 21	Special spirit: white spirit
2710 12 25	Special spirits other than white spirit
2710 12 31	Aviation motor spirit
2710 12 41	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of less than 95
2710 12 45	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of 95 or more but less than 98
2710 12 49	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of 98 or more
2710 12 50	Motor spirit other than for aviation, with a lead content exceeding 0,013 g per litre

▼ **M20**

CN Code	Description
2710 12 70	Spirit type jet fuel
2710 12 90	Other light oils
	Medium oils
2710 19 21	Kerosene for Jet fuel
2710 19 25	Other Kerosene
	Heavy oils
2710 19 51	Fuel oils for undergoing a specific process
2710 19 55	Fuel oils for undergoing chemical transformation by a process other than those specified in respect of subheading 2710 19 51
2710 19 62	Fuel oils for other purposes with a sulphur content not exceeding 0,1 % by weight
2710 19 66	Fuel oils for other purposes with a sulphur content exceeding 0,1 % by weight but not exceeding 0,5 % by weight
2710 19 67	Fuel oils for other purposes with a sulphur content exceeding 0,5 % by weight
	Petroleum oils and oils obtained from bituminous minerals (other than crude) and preparations not elsewhere specified or included, containing by weight 70 % or more of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations, containing biodiesel, other than waste oils
2710 20 32	Fuel oils with a sulphur content not exceeding 0,5 % by weight
2710 20 38	Fuel oils with a sulphur content exceeding 0,5 % by weight
2710 20 90	Other fuel oils

▼ **M20***ANNEX XXXII***List of petroleum products referred to in Article 3m paragraph 7**

CN Code	Description	Export volume quotas in kt
	Light oils and preparations for other purposes than specified in subheadings 2710 12 11 and 2710 12 15	
2710 12 25	Special spirits other than white spirit	282,8
2710 12 41	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of less than 95	120,6
2710 12 45	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of 95 or more but less than 98	995,6
2710 12 49	Motor spirit other than for aviation, with a lead content not exceeding 0,013 g per litre, with an octane number (RON) of 98 or more	3,4
	Heavy oils for other purposes than specified in subheadings 2710 19 51 and 2710 19 55	
2710 19 66	Fuel oils with a sulphur content exceeding 0,1 % by weight but not exceeding 0,5 % by weight	2,3
2710 19 67	Fuel oils with a sulphur content exceeding 0,5 % by weight	12,0

▼ M25*ANNEX XXXIII***List of goods and technology and countries as referred to in Article 12f**

CN Code	Description	Country
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▼ M25*ANNEX XXXV***List of firearms and other arms referred to in Article 2aa**

CN Code	Description
9303	Other firearms and similar devices which operate by the firing of an explosive charge
ex 9304	Other arms (for example, spring, air or gas guns and pistols), excluding those of heading 9307