# Forskrift om endring i forskrift 15. august 2014 nr. 1076 om restriktive tiltak vedrørende handlinger som undergraver eller truer Ukrainas territorielle integritet, suverenitet, uavhengighet og stabilitet

Fastsatt av Utenriksdepartementet 4. april 2023 med hjemmel i forskrift 15. august 2014 nr. 1076 om restriktive tiltak vedrørende handlinger som undergraver eller truer Ukrainas territorielle integritet, suverenitet, uavhengighet og stabilitet § 23.

#### I

I forskrift 15. august 2014 nr. 1076 om restriktive tiltak vedrørende handlinger som undergraver eller truer Ukrainas territorielle integritet, suverenitet, uavhengighet og stabilitet gjøres følgende endringer:

§ 2 nye bokstaver gg til jj skal lyde:

gg. «kritisk infrastruktur»: infrastruktur som definert i sivilbeskyttelsesloven § 3 bokstav d

*hh. «europeisk kritisk infrastruktur»: infrastruktur som definert i sivilbeskyttelsesloven § 3 bokstav e* 

ii. «eiere eller operatører av kritisk infrastruktur»: de enhetene som er ansvarlige for investeringer i, eller daglig drift av, en spesiell eiendel, et spesielt system eller del av disse, som er utpekt som kritisk infrastruktur eller europeisk kritisk infrastruktur etter bokstav gg og hh.

I § 6b gjøres følgende endringer:

Sjette ledd skal lyde:

Som unntak fra § 3 kan Utenriksdepartementet gi tillatelse til å frigi visse frosne penger eller formuesgoder som tilhører Alfa-Bank JSC, Rosbank og Tinkoff Bank JCS, eller til å stille visse frosne penger eller formuesgoder til rådighet for disse enhetene, på de vilkårene som Utenriksdepartementet finner hensiktsmessige og etter å ha slått fast at disse pengene eller formuesgodene er nødvendige for, senest den 3. oktober 2023, å kunne avslutte transaksjoner, kontrakter eller andre avtaler, herunder korrespondentbankforbindelser, inngått med disse enhetene før 25. februar 2023, eller, med hensyn til Alfa-Bank JSC, for transaksjoner for betaling av beløp fra Jewish Claims Conference til mottakere i Russland innen 3. januar 2024, uavhengig av når operasjonene, kontraktene eller andre avtaler ble inngått. Nåværende sjette ledd blir syvende ledd. I bestemmelsens bokstav a erstattes datoen «14. april 2023» med datoen «8. juli 2023».

Nåværende syvende ledd blir åttende ledd.

Nåværende åttende ledd blir nytt niende ledd.

Nytt tiende ledd skal lyde:

Som unntak fra § 3 kan Utenriksdepartementet gi tillatelse til å frigi visse frosne penger eller formuesgoder som innehas av National Settlement Depository, eller til å stille visse frosne penger eller formuesgoder til rådighet for denne enheten, på de vilkårene Utenriksdepartementet finner hensiktsmessig og etter å ha slått fast at

- a. disse pengene eller formuesgodene er nødvendige for avhending eller overføring av verdipapirer fra en enhet som er etablert i Norge eller EU, og som kontrolleres eller tidligere har vært kontrollert av VTB Bank,
- b. slik avhending eller overføring fullføres innen 31. august 2023, og
- c. slik avhending eller overføring gjennomføres på bakgrunn av operasjoner, kontrakter eller andre avtaler som er inngått med, eller på andre måter involverer, National Settlement Depository, før 3. juni 2022.

Nytt ellevte ledd skal lyde:

Som unntak fra § 3 kan Utenriksdepartementet gi tillatelse til å frigi visse frosne penger eller formuesgoder som innehas av Limited Liability Company «Commercial Vehicles GAZ Group», eller til å stille visse penger eller formuesgoder til rådighet for denne enheten, på de vilkårene Utenriksdepartementet finner hensiktsmessig og etter å ha slått fast at disse pengene eller formuesgodene er nødvendige for at operasjoner, kontrakter eller andre avtaler som er inngått med, eller på annen måte involverer enheten, før 25. februar 2023, skal kunne avsluttes innen 3. oktober 2023.

# § 6f første ledd skal lyde:

Som unntak fra § 3 kan Utenriksdepartementet gi tillatelse til å frigi visse frosne penger eller formuesgoder som tilhører Bank Rossiya, Promsvyazbank, VEB.RF, Otkritie FC Bank, Novikombank, Sovcombank, VTB Bank, Sberbank, Credit Bank of Moscow, JC Dalnevostochniy Bank, *Alfa-Bank JSC, Rosbank og Tinkoff Bank JSC*, eller til å stille visse frosne penger eller formuesgoder til rådighet for disse enhetene, på de vilkårene Utenriksdepartementet finner hensiktsmessige og etter å ha slått fast at disse pengene eller formuesgodene er nødvendige for kjøp, import eller transport av landbruksprodukter og matvarer, herunder hvete og gjødsel.

§ 8 skal lyde:

# § 8 Allmenn rapporteringsplikt for å fremme overholdelse av § 3

Uavhengig av gjeldende regler om rapportering, konfidensialitet og taushetsplikt, skal fysiske og juridiske personer

- a. senest to uker etter å ha mottatt relevante opplysninger, gi
   Utenriksdepartementet de opplysninger som kan *lette gjennomføringen* av § 3, herunder
  - *i.* opplysninger om penger og formuesgoder som er frosne i samsvar med § 3, eller opplysninger som innehas om penger og formuesgoder på norsk territorium som tilhører, innehas eller kontrolleres av fysiske eller juridiske personer oppført i vedlegg I, og som ikke er blitt behandlet som frosne av de fysiske og juridiske personene som er forpliktet til dette,
  - ii. opplysninger om penger og formuesgoder på norsk territorium som tilhører, innehas eller kontrolleres av fysiske eller juridiske personer oppført i vedlegg I, og som har vært gjenstand for flytting, overføring, endring, bruk av, adgang til eller behandling som nevnt i § 2 bokstav c eller e i de to ukene forut for oppføringen av de nevnte fysiske eller juridiske personene i vedlegg I,

og

*b.* samarbeide med Utenriksdepartementet om en eventuell verifisering av disse opplysningene.

*Opplysningene om penger og formuesgoder gitt i henhold til første ledd, og som er frosne i samsvar med § 3, skal omfatte minst følgende:* 

- a. opplysninger som identifiserer de fysiske eller juridiske personene som eier, innehar eller kontrollerer de frosne pengene eller formuesgodene, herunder navn, adresse, mva-nummer eller organisasjonsnummer,
- b. beløp eller markedsverdi for de nevnte pengene eller formuesgodene på rapporteringstidspunktet og på datoen for frysing, og
- c. form for penger, inndelt etter kategoriene fastsatt i § 2 bokstav d nr. i. til vii. samt kryptoeiendeler og andre relevante kategorier, og en ytterligere kategori som tilsvarer formuesgoder i henhold til § 2 bokstav b. For hver av disse kategoriene, og der det foreligger, skal det oppgis mengde, hvor pengene eller formuesgodene befinner seg og andre relevante aspekter ved pengene eller formuesgodene.

Verdipapirsentraler skal gi de opplysningene som er nevnt i første og andre ledd, og opplysninger om ekstraordinært og uforutsett tap og skade som gjelder penger og formuesgoder som nevnt i første ledd bokstav a nr. i og a nr. ii, til Utenriksdepartementet, senest to uker etter å ha mottatt opplysningene og deretter hver tredje måned.

Relevante fysiske eller juridiske personer skal samarbeide med Utenriksdepartementet om enhver verifisering av opplysningene om pengene eller formuesgodene nevnt i første og andre ledd. Utenriksdepartementet kan anmode om ytterligere opplysninger som er nødvendige for å gjennomføre slik verifisering.

Enhver opplysning som gis eller mottas i henhold til denne paragraf, skal brukes bare til det formål den gis eller mottas for.

Enhver behandling av personopplysninger skal gjennomføres i samsvar med personopplysningsloven.

§ 8a andre ledd skal lyde:

Alle opplysninger som gis eller mottas i *henhold til* denne *paragrafen*, skal benyttes utelukkende til de formålene de gis eller mottas for.

I § 8c gjøres følgende endringer:

#### Syvende ledd skal lyde:

Uavhengig av gjeldende regler om rapportering, konfidensialitet og taushetsplikt skal fysiske og juridiske personer, herunder Norges Bank, foretak i finanssektoren som definert i finansforetaksloven § 1-3, forsikrings- og gjenforsikringsforetak som definert i artikkel 13 i europaparlaments- og rådsdirektiv 2009/138/EF jf. solvens II-forskriften § 53, verdipapirsentraler som definert i § 2 bokstav o og sentrale motparter som definert i artikkel 2 i europaparlaments- og rådsforordning (EU) nr. 648/2012, jf. CRR/CRD IVforskriften § 2, senest to uker etter 4. juni 2023, framlegge for Utenriksdepartementet, opplysninger om reserver og eiendeler nevnt i sjette ledd som de innehar eller kontrollerer eller er motpart til. Nevnte opplysninger skal oppdateres hver tredje måned og skal minst dekke følgende:

- a. opplysninger som identifiserer de fysiske eller juridiske personene som eier, innehar eller kontrollerer de nevnte reservene og eiendelene, herunder navn, adresse, mva-nummer eller organisasjonsnummer,
- b. beløp eller markedsverdi for disse eiendelene eller reservene på rapporteringstidspunktet og datoen for immobilisering, og

c. type eiendeler og reserver, inndelt etter kategoriene fastsatt i § 2 bokstav d nr. i til vi samt kryptoeiendeler og andre relevante kategorier, og en ytterligere kategori som tilsvarer formuesgoder i henhold til § 2 bokstav b. For hver av disse kategoriene, og der det er tilgjengelig, skal det opplyses om relevante forhold, som mengde, hvor eiendelene og reservene befinner seg, valuta, løpetid og kontraktsvilkår mellom rapporterende foretak og eieren av eiendelen.

#### Nytt åttende ledd skal lyde:

Dersom den rapporterende fysiske eller juridiske personen har fastslått en ekstraordinær og uforutsett skade eller tap på eiendelene og reservene nevnt i syvende ledd, skal disse opplysningene umiddelbart rapporteres til Utenriksdepartementet.

#### Nytt niende ledd skal lyde:

De fysiske og juridiske personene som omfattes av rapporteringskravet fastsatt i syvende ledd, skal samarbeide med Utenriksdepartementet for å verifisere opplysningene som er mottatt i henhold til syvende ledd. Utenriksdepartementet kan anmode om ytterligere opplysninger som er nødvendige for å gjennomføre slik verifisering.

Nytt tiende ledd skal lyde:

Alle opplysninger som gis eller mottas av i henhold til denne paragrafen, skal benyttes utelukkende til de formålene de gis eller mottas for.

Nytt ellevte ledd skal lyde:

Enhver behandling av personopplysninger skal gjennomføres i samsvar med personopplysningsloven.

Nåværende syvende ledd blir tolvte ledd.

I § 8ca gjøres følgende endringer:

Første ledd bokstav a skal lyde:

a. juridiske personer som er etablert i Russland og er under offentlig kontroll, eller der det offentlige eier over 50 %, eller der Russland, Russlands regjering eller Russlands sentralbank har rett til utbytte, eller der *Russland, Russlands regjering* eller Russlands sentralbank har andre betydelige økonomiske forbindelser, som oppført i vedlegg XIX, eller

Trettende ledd bokstav d skal lyde:

d. transaksjoner, herunder salg, som er strengt nødvendige for avvikling innen 7. *februar 2024 av* et fellesforetak eller en lignende juridisk arrangement som er inngått før 25. mars 2022, og som involverer en juridisk person omhandlet i første ledd,

Trettende ledd bokstav g skal lyde:

g. transaksjoner som er strengt nødvendige for å sikre tilgang til rettslige, administrative eller voldgiftsmessige saker i Norge eller en EUmedlemsstat, samt for anerkjennelse eller fullbyrdelse av en dom eller en voldgiftsdom avsagt i Norge eller en EU-medlemsstat og dersom slike transaksjoner er i overensstemmelse med formålene i denne *forskriften*,

Trettende ledd ny bokstav h skal lyde:

h. yting av lostjenester til fartøyer under uskyldig gjennomfart, som definert i folkeretten, som er nødvendige av hensyn til sikkerheten til sjøs.

Fjortende ledd skal lyde:

Som unntak fra første ledd kan Utenriksdepartementet gi tillatelse, på de vilkårene Utenriksdepartementet finner hensiktsmessige, til transaksjoner som er strengt nødvendige for avhending og tilbaketrekking at enhetene nevnt i første ledd eller deres datterselskaper i Norge eller EU innen 7. *februar 2024* fra juridiske personer som er etablert i Norge eller EU.

Ny § 8cb skal lyde:

# § 8cb Forbud mot å la russiske statsborgere mv. inneha stillinger i visse styrende organer

Fra og med 4. mai 2023 er det forbudt å la russiske statsborgere eller fysiske personer bosatt i Russland inneha stillinger i styrende organer til eiere eller operatører av kritisk infrastruktur og europeisk kritisk infrastruktur.

Første ledd får ikke anvendelse for statsborgere fra et medlemsland i Det europeiske økonomiske samarbeidsområde eller fra Sveits.

§ 14ca første ledd bokstav c skal lyde:

- c. direkte eller indirekte ying av finansiering eller finansiell bistand knyttet til varer og teknologi oppført i vedlegg II, til fysiske eller juridiske personer, i de angitte territoriene eller til bruk i de angitte territoriene av
  - *i.* offentlige organer eller juridiske *personer som* mottar offentlig finansiering fra Norge eller EU-medlemsstatene, forutsatt at varene, teknologien, tjenestene og bistanden er nødvendig utelukkende for humanitære formål i de angitte territoriene,
  - *ii.* organisasjoner og byråer som er søylevurdert av EU, og som EU har undertegnet en rammeavtale om finansielt partnerskap med, der rammeavtalen er grunnlaget for at organisasjonene og byråene

fungerer som EUs humanitære partnere, forutsatt at varene, teknologien, tjenestene og bistanden er nødvendig utelukkende for humanitære formål i de angitte territoriene,

- *iii.* organisasjoner og byråer som har fått utstedt et sertifikat for humanitært partnerskap av EU, eller som er sertifisert eller anerkjent av Norge eller en EU-medlemsstat i samsvar med nasjonale framgangsmåter, forutsatt at varene, teknologien, tjenestene og bistanden er nødvendig utelukkende for humanitære formål i de angitte territoriene, eller
- *iv.* Norges eller EU-medlemsstatenes særlige organer, forutsatt at varene, teknologien, tjenestene og bistanden er nødvendig utelukkende for humanitære formål i de angitte territoriene.

I § 16 gjøres følgende endringer:

Andre ledd skal lyde:

Transitt via Russlands territorium av flerbruksvarer og flerbruksteknologi, som nevnt i første ledd, eksportert fra Norge, er forbudt.

Nåværende andre ledd blir tredje ledd.

Nåværende tredje ledd blir fjerde ledd.

Femte ledd skal lyde:

Uten at det berører kravene til tillatelse for eksport av flerbruksvarer og flerbruksteknologi oppført på «Liste II – flerbruksvarer» i vedlegg II til forskrift 19. juni 2023 nr. 718 om eksport av forsvarsmateriell, flerbruksvarer, teknologi og tjenester, får forbudet i andre ledd ikke anvendelse på transitt via Russlands territorium av flebruksvarer og flerbruksteknologi som er ment til bruk for formålene fastsatt i fjerde ledd bokstav a) til e) i denne bestemmelsen.

Nåværende fjerde ledd blir sjette ledd.

Syvende ledd skal lyde:

Som unntak fra bestemmelsene i andre ledd, og uten at det berører kravene til tillatelse for eksport av flerbruksvarer og flerbruksteknologi oppført på «Liste II – flerbruksvarer» i vedlegg II til forskrift 19. juni 2023 nr. 718 om eksport av forsvarsmateriell, flerbruksvarer, teknologi og tjenester, kan Utenriksdepartementet gi tillatelse til forsendelse via Russlands territorium av flerbruksvarer og flerbruksteknologi etter å ha slått fast at varene eller teknologien er ment til bruk for formålene fastsatt i sjette ledd bokstav b, c, d og h i denne bestemmelsen.

Nåværende femte ledd blir åttende ledd.

Nåværende sjette ledd blir niende ledd.

Nåværende syvende ledd blir tiende ledd.

I § 16aa skal andre ledd lyde:

Transitt via Russlands territorium av skytevåpen samt deler, vesentlige komponenter og ammunisjon til skytevåpen, som nevnt i første ledd, eksportert fra Norge, er forbudt.

Nåværende andre ledd blir tredje ledd.

§ 16b andre ledd skal lyde:

Utenriksdepartementet kan oppheve, suspendere, endre eller tilbakekalle en lisens som departementet har gitt i henhold til *første ledd*, dersom departementet finner at en slik oppheving, suspensjon, endring eller tilbakekalling er nødvendig for en effektiv gjennomføring av denne forskriften.

Ny § 17aa skal lyde:

# § 17aa Forbud mot å tilby lagringskapasitet for naturgass

Det er forbudt å tilby lagringskapasitet på et lagringsanlegg som definert i naturgassforskiften § 1-3 første ledd bokstav b til

- a. russiske statsborgere, fysiske personer bosatt i Russland eller juridiske personer etablert i Russland,
- b. juridiske personer hvis eiendomsrettigheter direkte eller indirekte er mer enn 50 % eid av en juridisk person nevnt i bokstav a i dette ledd, eller
- *c. fysiske eller juridiske personer som handler på vegne av eller på instruks fra en juridisk person nevnt i bokstav a eller b i dette ledd.*

Første ledd gjelder ikke for den delen av anlegg for flytende naturgass som brukes til lagring.

Første ledd gjelder ikke operasjoner som er strengt nødvendig for senest 4. mai 2023 å kunne si opp kontrakter som ikke oppfyller kravene i denne bestemmelsen og som er inngått før 5. april 2023, eller tilleggskontrakter som er nødvendige for å oppfylle slike kontrakter.

Som unntak fra første ledd kan Utenriksdepartementet, på de vilkårene Utenriksdepartementet finner hensiktsmessige, tillate levering av lagringskapasitet som nevnt i første ledd, etter at de har slått fast at dette er nødvendig for å sikre kritisk kraftforsyning i Norge eller EU.

# I § 17c skal åttende ledd lyde:

Med hensyn til varene oppført i vedlegg XII del D gjelder forbudene i første og fjerde ledd ikke oppfyllelse innen 4. mai 2023 av kontrakter inngått før 5. april 2023 eller tilknyttede kontrakter som er nødvendige for å oppfylle slike kontrakter.

Nåværende åttende ledd blir niende ledd. Nåværende niende ledd blir tiende ledd. Nåværende tiende ledd blir ellevte ledd. Nåværende ellevte ledd blir tolvte ledd. Nåværende tolvte ledd blir trettende ledd. Nåværende trettende ledd blir fjortende ledd.

# I § 17g gjøres følgende endringer:

Åttende ledd skal lyde:

Med hensyn til varene oppført i vedlegg XXI del C gjelder forbudene i første og andre ledd ikke oppfyllelse innen 4. juli 2023 av kontrakter inngått før 5. april 2023 eller tilknyttede kontrakter som er nødvendige for å oppfylle slike kontrakter.

Denne bestemmelsen gjelder ikke varer som hører inn under KN-kode 2803 og 4002 som oppført i vedlegg XXI del C. For disse varene gjelder bestemmelsen i niende ledd.

Niende ledd skal lyde:

Forbudene i første og andre ledd gjelder fram til 7. august 2024 ikke import, kjøp eller transport eller tilknyttet faglig eller finansiell bistand som er nødvendig for import til Norge av

a. 752 475 tonn for varer som hører inn under KN-kode 2803,

b. 562 973 tonn for varer som hører inn under KN-kode 4002.

Nåværende åttende ledd blir tiende ledd

Nåværende niende ledd blir ellevte ledd.

Nåværende tiende ledd blir tolvte ledd.

I § 17i gjøres følgende endringer:

Sjette ledd skal lyde:

Med hensyn til varene oppført i vedlegg XXIII del C gjelder forbudene i første og andre ledd ikke oppfyllelse innen 4. mai 2023 av kontrakter inngått før 5. april 2023 eller tilknyttede kontrakter som er nødvendige for å oppfylle slike kontrakter.

Denne bestemmelsen gjelder ikke varer som hører inn under KN-kode 7208 25, 7208 90, 7209 25, 7209 28 og 7219 24 som oppført i vedlegg XXIII del C. For disse varene gjelder bestemmelsen i tredje ledd.

Nåværende sjette ledd blir syvende ledd.

Nåværende syvende ledd blir åttende ledd.

Nåværende åttende ledd blir niende ledd og skal lyde:

Utenriksdepartementet kan, på de vilkårene Utenriksdepartementet finner hensiktsmessige, gi tillatelse til salg, levering, overføring eller eksport av varer som hører inn under *KN-kode 8417 20, eller* til yting av tilknyttet faglig eller finansiell bistand, etter å ha slått fast at slike varer eller yting av tilknyttet faglig eller finansiell bistand er nødvendig for personlig bruk i fysiske personers husholdning.

Tiende ledd skal lyde:

Som unntak fra første og andre ledd kan Utenriksdepartementet, på de vilkårene Utenriksdepartementet finner hensiktsmessige, gi tillatelse til salg, levering, overføring eller eksport av varene oppført i vedlegg XXIII del C eller til yting av tilknyttet faglig bistand, formidlingstjenester, finansiering eller finansiell bistand, etter å ha slått fast at dette er strengt nødvendig for produksjonen av varer av titan som kreves i luftfartsindustrien, og som det ikke finnes alternativ forsyning av.

Nåværende niende ledd blir ellevte ledd og skal lyde:

Når Utenriksdepartementet treffer beslutning om søknader om tillatelser omhandlet *i åttende, niende og tiende* ledd, skal Utenriksdepartementet ikke gi eksporttillatelse til fysiske eller juridiske personer i Russland eller til bruk i Russland, dersom Utenriksdepartementet har rimelig grunn til å anta at varene kan være beregnet på militær sluttbruk.

#### I § 19 gjøres følgende endringer:

Nytt femte ledd skal lyde:

Luftfartøyoperatører som bedriver ikke-regelbundne flyginger mellom Russland og Norge, direkte eller via tredjeland, skal gi Utenriksdepartementet alle relevante opplysninger om flygningen minst 48 timer før den finner sted.

Nytt sjette ledd skal lyde:

Dersom en flygning som er innmeldt i samsvar med femte ledd, avvises, skal Utenriksdepartementet umiddelbart underrette nettverksforvalteren.

I § 19d gjøres følgende endringer:

Første ledd bokstav b skal lyde:

b. Utenriksdepartementet har ingen rimelig grunn til å anta at varene kan være beregnet på militær sluttbruk, *eller har militær sluttbruk*, i Russland, og

Nytt tredje ledd lyde:

Som unntak fra § 19c kan Utenriksdepartementet tillate videreføring av tjenesteyting til 7. februar 2024, dersom nevnte tjenesteyting er strengt nødvendig for avhendelser fra Russland eller avvikling av forretningsvirksomhet i Russland, forutsatt at følgende vilkår er oppfylt:

- a. nevnte tjenester ytes til, og utelukkende til fordel for, de juridiske personene som er resultatet av avhendelsen, og
- b. Utenriksdepartementet har ingen rimelig grunn til å anta at tjenestene kan bli tilbudt, direkte eller indirekte, til Russlands regjering eller til en militær sluttbruker, eller ha militær sluttbruk i Russland.

Ny § 19e skal lyde:

# § 19e Lostjenester til fartøyer under uskyldig gjennomfart

Forbudene mot å tilby faglig bistand fastsatt i denne forskriften får ikke anvendelse på levering av lostjenester til fartøyer under uskyldig gjennomfart, som definert i folkeretten, og som er nødvendige av hensyn til sikkerheten til sjøs.

Ny § 19f skal lyde:

# § 19f Frigjøring av varer

Med hensyn til forbudene mot import av varer fastsatt i denne forskriften, kan tollmyndighetene frigjøre varer som fysisk befinner seg i Norge for disponering, som fastsatt i vareførselsloven kapittel 3 og 4, forutsatt at de har vært framlagt for tollmyndighetene for kontroll i samsvar med vareførselsloven § 2-4 før ikrafttredelseseller anvendelsesdatoen for de respektive importforbudene, avhengig av hva som inntreffer sist.

Alle administrative skritt som er nødvendige for frigjørelsen nevnt i første og femte ledd av de relevante varene, skal være tillatt.

Tollmyndighetene skal ikke frigjøre varer for tollprosedyrer for innførsel dersom det er rimelig grunn til å anta at regelverket omgås, og de skal ikke tillate gjenutførsel av varene til Russland etter vareførselsloven § 1-3 første ledd.

Betaling i forbindelse med slike varer skal være i overenstemmelse med bestemmelsene i og målene med denne forskriften, særlig med hensyn til forbud mot kjøp.

Varer som fysisk befinner seg i Norge og har vært framlagt for tollmyndighetene for kontroll i samsvar med vareførselsloven § 2-4 før 5. april 2023, og som ble stoppet i henhold til anvendelse av denne forskriften, kan frigjøres av tollmyndighetene i henhold til vareførselsloven kapittel 3 etter vilkårene fastsatt i første til fjerde ledd.

Vedlegg VI erstattes av følgende:

# Vedlegg VI

# Personer omtalt i § 16 sjette ledd § 16a tredje ledd, jf. § 16 sjette ledd og §16b første ledd

- 1. JSC Sirius
- 2. OJSC Stankoinstrument
- 3. OAO JSC Chemcomposite
- 4. JSC Kalashnikov
- 5. JSC Tula Arms Plant
- 6. NPK Technologii Maschinostrojenija
- 7. OAO Wysokototschnye Kompleksi
- 8. OAO Almaz Antey
- 9. OAO NPO Bazalt
- 10. Admiralty Shipyard JSC
- 11. Aleksandrov Scientific Research Technological Institute NITI
- 12. Argut OOO
- 13. Communication center of the Ministry of Defense
- 14. Federal Research Center Boreskov Institute of Catalysis
- 15. Federal State Budgetary Enterprise of the Administration of the President of Russia

16. Federal State Budgetary Enterprise Special Flight Unit Rossiya of the Administration of the President of Russia

17. Federal State Unitary Enterprise Dukhov Automatics Research Institute (VNIIA)

18. Foreign Intelligence Service (SVR)

19. Forensic Center of Nizhniy Novgorod Region Main Directorate of the Ministry of Interior Affairs

20. International Center for Quantum Optics and Quantum Technologies (the Russian Quantum Center)

- 21. Irkut Corporation
- 22. Irkut Research and Production Corporation Public Joint Stock Company
- 23. Joint Stock Company Scientific Research Institute of Computing Machinery
- 24. JSC Central Research Institute of Machine Building (JSC TsNIIMash)
- 25. JSC Kazan Helicopter Plant Repair Service
- 26. JSC Shipyard Zaliv (Zaliv Shipbuilding yard)
- 27. JSC Rocket and Space Centre Progress
- 28. Kamensk-Uralsky Metallurgical Works J.S. Co.
- 29. Kazan Helicopter Plant PJSC
- 30. Komsomolsk-na-Amur Aviation Production Organization (KNAAPO)
- 31. Ministry of Defence RF
- 32. Moscow Institute of Physics and Technology
- 33. NPO High Precision Systems JSC
- 34. NPO Splav JSC
- 35. OPK Oboronprom
- 36. PJSC Beriev Aircraft Company
- 37. PJSC Irkut Corporation
- 38. PJSC Kazan Helicopters
- 39. POLYUS Research Institute of M.F. Stelmakh Joint Stock Company
- 40. Promtech-Dubna, JSC
- 41. Public Joint Stock Company United Aircraft Corporation

- 42. Radiotechnical and Information Systems (RTI) Concern
- 43. Rapart Services LLC
- 44. Rosoboronexport OJSC (ROE)
- 45. Rostec (Russian Technologies State Corporation)
- 46. Rostekh Azimuth
- 47. Russian Aircraft Corporation MiG
- 48. Russian Helicopters JSC
- 49. SP KVANT (Sovmestnoe Predpriyatie Kvantovye Tekhnologii)
- 50. Sukhoi Aviation JSC
- 51. Sukhoi Civil Aircraft
- 52. Tactical Missiles Corporation JSC
- 53. Tupolev JSC
- 54. UEC-Saturn
- 55. United Aircraft Corporation
- 56. JSC AeroKompozit
- 57. United Engine Corporation
- 58. UEC-Aviadvigatel JSC
- 59. United Instrument Manufacturing Corporation
- 60. United Shipbuilding Corporation
- 61. JSC PO Sevmash
- 62. Krasnoye Sormovo Shipyard
- 63. Severnaya Shipyard
- 64. Shipyard Yantar
- 65. UralVagonZavod
- 66. Baikal Electronics
- 67. Center for Technological Competencies in Radiophtonics
- 68. Central Research and Development Institute Tsiklon
- 69. Crocus Nano Electronics

- 70. Dalzavod Ship-Repair Center
- 71. Elara
- 72. Electronic Computing and Information Systems
- 73. ELPROM
- 74. Engineering Center Ltd.
- 75. Forss Technology Ltd.
- 76. Integral SPB
- 77. JSC Element
- 78. JSC Pella-Mash
- 79. JSC Shipyard Vympel
- 80. Kranark LLC
- 81. Lev Anatolyevich Yershov (Ershov)
- 82. LLC Center
- 83. MCST Lebedev
- 84. Miass Machine-Building Factory
- 85. Microelectronic Research and Development Center Novosibirsk
- 86. MPI VOLNA
- 87. N.A. Dollezhal Order of Lenin Research and Design Institute of Power Engineering
- 88. Nerpa Shipyard
- 89. NM-Tekh
- 90. Novorossiysk Shipyard JSC
- 91. NPO Electronic Systems
- 92. NPP Istok
- 93. NTC Metrotek
- 94. OAO GosNIIkhimanalit
- 95. OAO Svetlovskoye Predpriyatiye Era
- 96. OJSC TSRY
- 97. OOO Elkomtekh (Elkomtex)

- 98. OOO Planar
- 99. OOO Sertal
- 100. Photon Pro LLC
- 101. PJSC Zvezda
- 102. Amur Shipbuilding Factory PJSC
- 103. AO Center of Shipbuilding and Ship Repairing JSC
- 104. AO Kronshtadt
- 105. Avant Space LLC
- 106. Production Association Strela
- 107. Radioavtomatika
- 108. Research Center Module
- 109. Robin Trade Limited
- 110. R.Ye. Alekseyev Central Design Bureau for Hydrofoil Ships
- 111. Rubin Sever Design Bureau
- 112. Russian Space Systems
- 113. Rybinsk Shipyard Engineering
- 114. Scientific Research Institute of Applied Chemistry
- 115. Scientific-Research Institute of Electronics
- 116. Scientific Research Institute of Hypersonic Systems
- 117. Scientific Research Institute NII Submikron
- 118. Sergey IONOV
- 119. Serniya Engineering
- 120. Severnaya Verf Shipbuilding Factory
- 121. Ship Maintenance Center Zvezdochka
- 122. State Governmental Scientific Testing Area of Aircraft Systems (GkNIPAS)
- 123. State Machine Building Design Bureau Raduga Bereznya
- 124. State Scientific Center AO GNTs RF—FEI A.I. Leypunskiy Physico-Energy Institute
- 125. State Scientific Research Institute of Machine Building Bakhirev (GosNIImash)

126. Tomsk Microwave and Photonic Integrated Circuits and Modules Collective Design Center

- 127. UAB Pella-Fjord
- 128. United Shipbuilding Corporation JSC "35th Shipyard"
- 129. United Shipbuilding Corporation JSC "Astrakhan Shipyard"
- 130. United Shipbuilding Corporation JSC "Aysberg Central Design Bureau"
- 131. United Shipbuilding Corporation JSC "Baltic Shipbuilding Factory"
- 132. United Shipbuilding Corporation JSC "Krasnoye Sormovo Plant OJSC"
- 133. United Shipbuilding Corporation JSC SC "Zvyozdochka"
- 134. United Shipbuilding Corporation "Pribaltic Shipbuilding Factory Yantar"
- 135. United Shipbuilding Corporation "Scientific Research Design Technological Bureau Onega"
- 136. United Shipbuilding Corporation "Sredne-Nevsky Shipyard"
- 137. Ural Scientific Research Institute for Composite Materials
- 138. Urals Project Design Bureau Detal
- 139. Vega Pilot Plant
- 140. Vertikal LLC
- 141. Vladislav Vladimirovich Fedorenko
- 142. VTK Ltd
- 143. Yaroslavl Shipbuilding Factory
- 144. ZAO Elmiks-VS
- 145. ZAO Sparta
- 146. ZAO Svyaz Inzhiniring
- 147. 46th TSNII Central Scientific Research Institute
- 148. Alagir Resistor Factory
- 149. All-Russian Research Institute of Optical and Physical Measurements
- 150. All-Russian Scientific-Research Institute Etalon JSC
- 151. Almaz JSC
- 152. Arzam Scientific Production Enterprise Temp Avia

- 153. Automated Procurement System for State Defense Orders, LLC
- 154. Dolgoprudniy Design Bureau of Automatics (DDBA JSC)
- 155. Electronic Computing Technology Scientific-Research Center JSC
- 156. Electrosignal JSC
- 157. Energiya JSC
- 158. Engineering Center Moselectronproekt
- 159. Etalon Scientific and Production Association
- 160. Evgeny Krayushin
- 161. Foreign Trade Association Mashpriborintorg
- 162. Ineko LLC
- 163. Informakustika JSC
- 164. Institute of High Energy Physics
- 165. Institute of Theoretical and Experimental Physics
- 166. Inteltech PJSC
- 167. ISE SO RAN Institute of High-Current Electronics
- 168. Kaluga Scientific-Research Institute of Telemechanical Devices JSC
- 169. Kulon Scientific-Research Institute JSC
- 170. Lutch Design Office JSC
- 171. Meteor Plant JSC
- 172. Moscow Communications Research Institute JSC
- 173. Moscow Order of the Red Banner of Labor Research Radio Engineering Institute JSC
- 174. NPO Elektromechaniki JSC
- 175. Omsk Production Union Irtysh JSC
- 176. Omsk Scientific-Research Institute of Instrument Engineering JSC
- 177. Optron, JSC
- 178. Pella Shipyard OJSC
- 179. Polyot Chelyabinsk Radio Plant JSC
- 180. Pskov Distance Communications Equipment Plant

181. Radiozavod JSC

182. Razryad JSC

- 183. Research Production Association Mars
- 184. Ryazan Radio-Plant
- 185. Scientific Production Center Vigstar JSC
- 186. Scientific Production Enterprise "Radiosviaz"
- 187. Scientific Research Institute Ferrite-Domen
- 188. Scientific Research Institute of Communication Management Systems
- 189. Scientific-Production Association and Scientific-Research Institute of Radio-Components
- 190. Scientific-Production Enterprise "Kant"
- 191. Scientific-Production Enterprise "Svyaz"
- 192. Scientific-Production Enterprise Almaz JSC
- 193. Scientific-Production Enterprise Salyut JSC
- 194. Scientific-Production Enterprise Volna
- 195. Scientific-Production Enterprise Vostok JSC
- 196. Scientific-Research Institute "Argon"
- 197. Scientific-Research Institute and Factory Platan

198. Scientific-Research Institute of Automated Systems and Communications Complexes Neptune JSC

199. Special Design and Technical Bureau for Relay Technology

200. Special Design Bureau Salute JSC

201. Tactical Missile Company, Joint Stock Company "Salute"

202. Tactical Missile Company, Joint Stock Company "State Machine Building Design Bureau 'Vympel' By Name I.I.Toropov"

203. Tactical Missile Company, Joint Stock Company "URALELEMENT"

204. Tactical Missile Company, Joint Stock Company "Plant Dagdiesel"

205. Tactical Missile Company, Joint Stock Company "Scientific Research Institute of Marine Heat Engineering"

206. Tactical Missile Company, Joint Stock Company PA Strela

- 207. Tactical Missile Company, Joint Stock Company Plant Kulakov
- 208. Tactical Missile Company, Joint Stock Company Ravenstvo
- 209. Tactical Missile Company, Joint Stock Company Ravenstvo-service
- 210. Tactical Missile Company, Joint Stock Company Saratov Radio Instrument Plant
- 211. Tactical Missile Company, Joint Stock Company Severny Press

212. Tactical Missile Company, Joint-Stock Company "Research Center for Automated Design"

- 213. Tactical Missile Company, KB Mashinostroeniya
- 214. Tactical Missile Company, NPO Electromechanics
- 215. Tactical Missile Company, NPO Lightning
- 216. Tactical Missile Company, Petrovsky Electromechanical Plant "Molot"
- 217. Tactical Missile Company, PJSC "MBDB 'ISKRA""
- 218. Tactical Missile Company, PJSC ANPP Temp Avia
- 219. Tactical Missile Company, Raduga Design Bureau
- 220. Tactical Missile Corporation, "Central Design Bureau of Automation"
- 221. Tactical Missile Corporation, 711 Aircraft Repair Plant
- 222. Tactical Missile Corporation, AO GNPP "Region"
- 223. Tactical Missile Corporation, AO TMKB "Soyuz"
- 224. Tactical Missile Corporation, Azov Optical and Mechanical Plant
- 225. Tactical Missile Corporation, Concern "MPO Gidropribor"
- 226. Tactical Missile Corporation, Joint Stock Company "KRASNY GIDROPRESS"
- 227. Tactical Missile Corporation, Joint Stock Company Avangard
- 228. Tactical Missile Corporation, Joint Stock Company Concern Granit-Electron
- 229. Tactical Missile Corporation, Joint Stock Company Elektrotyaga
- 230. Tactical Missile Corporation, Joint Stock Company GosNIIMash
- 231. Tactical Missile Corporation, RKB Globus
- 232. Tactical Missile Corporation, Smolensk Aviation Plant
- 233. Tactical Missile Corporation, TRV Engineering
- 234. Tactical Missile Corporation, Ural Design Bureau "Detal"

- 235. Tactical Missile Corporation, Zvezda-Strela Limited Liability Company
- 236. Tambov Plant (TZ) "October"

237. United Shipbuilding Corporation "Production Association Northern Machine Building Enterprise"

- 238. United Shipbuilding Corporation "5th Shipyard"
- 239. Federal Center for Dual-Use Technology (FTsDT) Soyuz
- 240. Turayev Machine Building Design Bureau Soyuz
- 241. Zhukovskiy Central Aerohydrodynamics Institute (TsAGI)
- 242. Rosatomflot
- 243. Lyulki Experimental-Design Bureau
- 244. Lyulki Science and Technology Center
- 245. AO Aviaagregat
- 246. Central Aerohydrodynamic Institute (TsAGI)
- 247. Closed Joint Stock Company Turborus (Turborus)

248. Federal Autonomous Institution Central Institute of Engine-Building N.A. P.I. Baranov; Central Institute of Aviation Motors (CIAM)

249. Federal State Budgetary Institution National Research Center Institute N.A. N.E. Zhukovsky (Zhukovsky National Research Institute)

250. Federal State Unitary Enterprise "State Scientific-Research Institute for Aviation Systems" (GosNIIAS)

- 251. Joint Stock Company 123 Aviation Repair Plant (123 ARZ)
- 252. Joint Stock Company 218 Aviation Repair Plant (218 ARZ)
- 253. Joint Stock Company 360 Aviation Repair Plant (360 ARZ)
- 254. Joint Stock Company 514 Aviation Repair Plant (514 ARZ)
- 255. Joint Stock Company 766 UPTK
- 256. Joint Stock Company Aramil Aviation Repair Plant (AARZ)
- 257. Joint Stock Company Aviaremont (Aviaremont)
- 258. Joint Stock Company Flight Research Institute N.A. M.M. Gromov (FRI Gromov)
- 259. Joint Stock Company Metallist Samara (Metallist Samara)

260. Joint Stock Company Moscow Machine-Building Enterprise named after V. V. Chernyshev (MMP V.V. Chernyshev)

261. JSC NII Steel

262. Joint Stock Company Remdizel

263. Joint Stock Company Special Industrial and Technical Base Zvezdochka (SPTB Zvezdochka)

264. Joint Stock Company STAR

265. Joint Stock Company Votkinsk Machine Building Plant

266. Joint Stock Company Yaroslav Radio Factory

267. Joint Stock Company Zlatoustovsky Machine Building Plant (JSC Zlatmash)

268. Limited Liability Company Center for Specialized Production OSK Propulsion (OSK Propulsion)

269. Lytkarino Machine-Building Plant

270. Moscow Aviation Institute

271. Moscow Institute of Thermal Technology

272. Omsk Motor-Manufacturing Design Bureau

273. Open Joint Stock Company 170 Flight Support Equipment Repair Plant (170 RZ SOP)

274. Open Joint Stock Company 20 Aviation Repair Plant (20 ARZ)

275. Open Joint Stock Company 275 Aviation Repair Plant (275 ARZ)

276. Open Joint Stock Company 308 Aviation Repair Plant (308 ARZ)

277. Open Joint Stock Company 32 Repair Plant of Flight Support Equipment (32 RZ SOP)

278. Open Joint Stock Company 322 Aviation Repair Plant (322 ARZ)

279. Open Joint Stock Company 325 Aviation Repair Plant (325 ARZ)

280. Open Joint Stock Company 680 Aircraft Repair Plant (680 ARZ)

281. Open Joint Stock Company 720 Special Flight Support Equipment Repair Plant (720 RZ SOP)

282. Open Joint Stock Company Volgograd Radio-Technical Equipment Plant (VZ RTO)

283. Public Joint Stock Company Agregat (PJSC Agregat)

284. Salute Gas Turbine Research and Production Center

285. Scientific-Production Association Vint of Zvezdochka Shipyard (SPU Vint)

- 286. Scientific Research Institute of Applied Acoustics (NIIPA)
- 287. Siberian Scientific-Research Institute of Aviation N.A. S.A. Chaplygin (SibNIA)
- 288. Software Research Institute
- 289. Subsidiary Sevastopol Naval Plant of Zvezdochka Shipyard (Sevastopol Naval Plant)
- 290. Tula Arms Plant
- 291. Russian Institute of Radio Navigation and Time
- 292. Federal Technical Regulation and Metrology Agency (Rosstandart)

293. Federal State Budgetary Institution of Science P.I. K.A. Valiev RAS of the Ministry of Science and Higher Education of Russia (FTIAN)

294. Federal State Unitary Enterprise All-Russian Research Institute of Physical, Technical and Radio Engineering Measurements (VNIIFTRI)

295. Institute of Physics Named After P.N. Lebedev of the Russian Academy of Sciences (LPI)

296. The Institute of Solid-State Physics of the Russian Academy of Sciences (ISSP)

297. Rzhanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences (IPP SB RAS)

298. UEC-Perm Engines, JSC

- 299. Ural Works of Civil Aviation, JSC
- 300. Central Design Bureau for Marine Engineering "Rubin", JSC
- 301. "Aeropribor-Voskhod", JSC
- 302. Aerospace Equipment Corporation, JSC
- 303. Central Research Institute of Automation and Hydraulics (CNIIAG), JSC
- 304. Aerospace Systems Design Bureau, JSC
- 305. Afanasyev Technomac, JSC
- 306. Ak Bars Shipbuilding Corporation, CJSC
- 307. AGAT, Gavrilov-Yaminskiy Machine-Building Plant, JSC
- 308. Almaz Central Marine Design Bureau, JSC
- 309. Joint Stock Company Eleron
- 310. AO Rubin
- 311. Branch of AO Company Sukhoi Yuri Gagarin Komsomolsk-on-Amur Aircraft Plant

- 312. Branch of PAO II Aviastar
- 313. Branch of RSK MiG Nizhny Novgorod Aircraft-Construction Plant Sokol
- 314. Chkalov Novosibirsk Aviation Plant
- 315. Joint Stock Company All-Russian Scientific-Research Institute Gradient
- 316. Joint Stock Company Almatyevsk Radiopribor Plant (JSC AZRP)

317. Joint Stock Company Experimental-Design Bureau Elektroavtomatika in the name of P.A. Efimov

- 318. Joint Stock Company Industrial Controls Design Bureau
- 319. Joint Stock Company Kazan Instrument-Engineering and Design Bureau
- 320. Joint Stok Company Microtechnology
- 321. Phasotron Scientific-Research Institute of Radio-Engineering
- 322. Joint Stock Company Radiopribor
- 323. Joint Stock Company Ramensk Instrument-Engineering Bureau
- 324. Joint Stock Company Research and Production Center SAPSAN
- 325. Joint Stock Company Rychag
- 326. Joint Stock Company Scientific Production Enterprise Izmeritel

327. Joint Stock Company Scientific-Production Union for Radioelectronics named after V.I. Shimko

- 328. Joint Stock Company Taganrog Communications Scientific-Research Institute
- 329. Joint Stock Company Urals Instrument-Engineering Plant
- 330. Joint Stock Company Vzlet Engineering Testing Support
- 331. Joint Stock Company Zhiguli Radio Plant
- 332. Joint Stock Company Bryansk Electromechanical Plant
- 333. Public Joint Stock Company Moscow Institute of Electro-Mechanics and Automation
- 334. Public Joint Stock Company Stavropol Radio Plant Signal
- 335. Public Joint Stock Company Techpribor
- 336. Joint Stock Company Ramensky Instrument-Engineering Plant
- 337. V.V. Tarasov Avia Avtomatika
- 338. Design Bureau of Chemical Machine Building KBKhM

339. Far Eastern Shipbuilding and Ship Repair Center

340. Ilyushin Aviation Complex Branch: Myasishcheva Experimental Mechanical Engineering Plant

- 341. Institute of Marine Technology Problems Far East Branch Russian Academy of Sciences
- 342. Irkutsk Aviation Plant
- 343. Joint Stock Company Aerocomposit Ulyanovsk Plant
- 344. Joint Stock Company Experimental Design Bureau named after A.S. Yakovlev
- 345. Joint Stock Company Federal Research and Production Center Altai
- 346. Joint Stock Company "Head Special Design Bureau Prozhektor
- 347. Joint Stock Company Ilyushin Aviation Complex
- 348. Joint Stock Company Lazurit Central Design Bureau
- 349. Joint Stock Company Research and Development Enterprise Protek
- 350. Joint Stock Company SPMDB Malachite
- 351. Joint Stock Company Votkinsky Zavod
- 352. Kalyazinsky Machine Building Factory Branch of RSK MiG

353. Main Directorate of Deep-Sea Research of the Ministry of Defense of the Russian Federation

- 354. NPP Start
- 355. OAO Radiofizika
- 356. P.A. Voronin Lukhovitsk Aviation Plant, branch of RSK MiG
- 357. Public Joint Stock Company Bryansk Special Design Bureau
- 358. Public Joint Stock Company Voronezh Joint Stock Aircraft Company
- 359. Radio Technical Institute named after A. L. Mints
- 360. Russian Federal Nuclear Center All-Russian Research Institute of Experimental Physics
- 361. Shvabe JSC
- 362. Special Technological Center LLC
- 363. St. Petersburg Marine Bureau of Machine Building Malakhit
- 364. St. Petersburg Naval Design Bureau Almaz
- 365. St. Petersburg Shipbuilding Institution Krylov 45

- 366. Strategic Control Posts Corporation
- 367. V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences
- 368. Vladimir Design Bureau for Radio Communications OJSC

369. Voentelecom JSC

370. A.A. Kharkevich Institute for Information Transmission Problems (IITP), Russian Academy of Sciences (RAS)

371. Ak Bars Holding

372. Special Research Bureau for Automation of Marine Researches Far East Branch Russian Academy of Sciences

- 373. Systems of Biological Synthesis LLC
- 374. Borisfen, JSC
- 375. Barnaul cartridge plant, JSC
- 376. Concern Avrora Scientific and Production Association, JSC
- 377. Bryansk Automobile Plant, JSC
- 378. Burevestnik Central Research Institute, JSC
- 379. Research Institute of Space Instrumentation, JSC
- 380. Arsenal Machine-building plant, OJSC
- 381. Central Design Bureau of Automatics, JSC
- 382. Zelenodolsk Design Bureau, JSC
- 383. Zavod Elecon, JSC
- 384. VMP "Avitec", JSC
- 385. JSC V. Tikhomirov Scientific Research Institute of Instrument Design
- 386. Tulatochmash, JSC
- 387. PJSC "I.S. Brook" INEUM
- 388. SPE "Krasnoznamenets", JSC
- 389. SPA Pribor named after S.S. Golembiovsky, SC
- 390. SPA "Impuls", JSC
- 391. RusBITech
- 392. ROTOR 43

- 393. Rostov optical and mechanical plant, PJSC
- 394. RATEP, JSC
- 395. PLAZ
- 396. OKB "Technika"
- 397. Ocean Chips
- 398. Nudelman Precision Engineering Design Bureau
- 399. Angstrem JSC
- 400. NPCAP
- 401. Novosibirsk Plant of Artificial Fibre
- 402. Novosibirsk Cartridge Plant, JSC (alias: SIBFIRE), Новосибирский Патронный Завод
- 403. Novator DB
- 404. NIMI named after V.V. BAHIREV, JSC
- 405. NII Stali JSC
- 406. Nevskoe Design Bureau, JSC
- 407. Neva Electronica JSC
- 408. ENICS
- 409. The JSC Makeyev Design Bureau
- 410. KURGANPRIBOR, JSC
- 411. Ural Optical-Mechanical Plant E.S. Yalamova, JSC
- 412. Ramenskoye Engineering Design Office, JSC
- 413. Vologda Optical and Mechanical Plant, JSC
- 414. Videoglaz Project
- 415. Innovative Underwater Technologies, LLC
- 416. Ulyanovsk Mechanical Plant
- 417. All-Russian Research Institute of Radio Engineering

418. PJSC "Scientific and Production Association 'Almaz' named after Academician A.A. Raspletin"

- 419. Concern OJSC KIZLYAR ELECTRO-MECHANICAL PLANT
- 420. Concern Oceanpribor, JSC

- 421. JSC Zelenogradsky Nanotechnology Center
- 422. JSC Elektronstandart Pribor
- 423. JSC "Urals Optical-Mechanical Plant named after Mr E.S Yalamov"
- 424. Ramenskoye Instrument-Making Design Bureau, JSC
- 425. Special Technology Centre Limited Liability Company
- 426. Vest Ost Limited Liability
- 427. Trade-Component LLC
- 428. Radiant Electronic Components JSC
- 429. JSC ICC Milandr
- 430. SMT iLogic LLC
- 431. Device Consulting
- 432. Concern Radio-Electronic Technologies
- 433. Technodinamika, JSC
- 434. OOO "UNITEK"
- 435. Closed Joint Stock Company TPK LINKOS
- 436. Closed Joint Stock Company TPK LINKOS, SUBDIVISION IN ASTRAKHAN
- 437. Design and Manufacturing of Aircraft Engines (DAMA)
- 438. Islamic Revolutionary Guard Corps Aerospace Force

439. Islamic Revolutionary Guard Corps Research and Self-Sufficiency Jihad Organization (IRGC SSJO)

- 440. Oje Parvaz Mado Nafar Company (Mado)
- 441. Paravar Pars Company
- 442. Qods Aviation Industries
- 443. Shahed Aviation Industries
- 444. Concern Morinformsystem-Agat
- 445. AO Papilon
- 446. IT-Papillon OOO
- 447. OOO Adis
- 448. Papilon Systems Limited Liability Company

449. Advanced Research Foundation

450. Federal Service for Military-Technical Cooperation

451. Federal State Budgetary Scientific Institution Research and Production Complex Technology Center

452. Federal State Institution Federal Scientific Center Scientific Research Institute for System Analysis of the Russian Academy of Sciences

453. Joint Stock Company All-Russian Research Institute Signal

454. Joint Stock Company Center of Research and Technology Services Dinamika

455. Joint Stock Company Concern Avtomatika

456. Joint Stock Company Corporation Moscow Institute of Heat Technology

457. Joint Stock Company Design Center Soyuz

458. Joint Stock Company Design Technology Center Elektronika

459. Joint Stock Company Institute for Scientific Research Microelectronic Equipment Progress

460. Joint Stock Company Machine-Building Engineering Office Fakel Named After Akademika P.D. Grushina

461. Joint Stock Company Moscow Institute of Electromechanics and Automatics

462. Joint Stock Company North Western Regional Center of Almaz Antey Concern Obukhovsky Plant

463. Joint Stock Company Obninsk Research and Production Enterprise Technologiya Named After A.G. Romashin

464. Joint Stock Company Penza Electrotechnical Research Institute

465. Joint Stock Company Production Association Sever

466. Joint Stock Company Research Center ELINS

467. Joint Stock Company Research and Production Association of Measuring Equipment

468. Joint Stock Company Research and Production Enterprise Radar MMS

469. Joint Stock Company Research and Production Enterprise Sapfir

470. Joint Stock Company RT-Tekhpriemka

471. Joint Stock Company Russian Research Institute Electronstandart

472. Joint Stock Company Ryazan Plant of Metal Ceramic Instruments

- 473. Joint Stock Company Scientific Production Enterprise Digital Solutions
- 474. Joint Stock Company Scientific Production Enterprise Kontakt
- 475. Joint Stock Company Scientific Production Enterprise Topaz
- 476. Joint Stock Company Scientific Research Institute Giricond
- 477. Joint Stock Company Scientific Research Institute of Computer Engineering NII SVT
- 478. Joint Stock Company Scientific Research Institute of Electrical Carbon Products
- 479. Joint Stock Company Scientific Research Institute of Electronic and Mechanical Devices
- 480. Joint Stock Company Scientific Research Institute of Electronic Engineering Materials
- 481. Joint Stock Company Scientific Research Institute of Gas Discharge Devices Plasma
- 482. Joint Stock Company Scientific Research Institute of Industrial Television Rastr
- 483. Joint Stock Company Scientific Research Institute of Precision Mechanical Engineering
- 484. Joint Stock Company Special Design Bureau of Computer Engineering
- 485. Joint Stock Company Special Design Bureau of Control Means
- 486. Joint Stock Company Special Design Bureau Turbina
- 487. Joint Stock Company State Scientific Research Institute Kristall
- 488. Joint Stock Company Svetlana Semiconductors
- 489. Joint Stock Company Tekhnodinamika
- 490. Joint Stock Company Voronezh Semiconductor Devices Factory Assembly
- 491. KAMAZ Publicly Traded Company
- 492. Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences
- 493. Limited Liability Company Research and Production Association Radiovolna
- 494. Limited Liability Company RSBGroup
- 495. Mitishinskiy Scientific Research Institute of Radio Measuring Instruments
- 496. Open Joint Stock Company Khabarovsk Radio Engineering Plant
- 497. Open Joint Stock Company Mariyskiy Machine-Building Plant
- 498. Open Joint Stock Company Scientific and Production Enterprise Pulsar
- 499. Public Joint Stock Company Megafon
- 500. Public Joint Stock Company Tutaev Motor Plant

- 501. Public Joint Stock Company Vympel Interstate Corporation
- 502. RT-Inform Limited Liability Company
- 503. Skolkovo Foundation
- 504. Skolkovo Institute of Science and Technology
- 505. State Flight Testing Center Named After V.P. Chkalov

506. Joint Stock Company Research and Production Association Named After S.A. Lavochkina'

Vedlegg IX erstattes av følgende:

# Vedlegg IX

# Liste over varer og teknologi som omtalt i § 16a første ledd og § 16b første ledd

# Del A

Generelle merknader, akronymer og forkortelser samt definisjoner i «Liste II – flerbruksvarer» i vedlegg II til forskrift 19. juni 2013 nr. 718 om eksport av forsvarsmateriell, flerbruksvarer, teknologi og tjenester, får anvendelse for dette vedlegget, med unntak av «Del I – Generelle merknader, akronymer og forkortelser samt definisjoner, Generelle merknader til Liste II punkt 2».

Definisjoner av termer som brukes i «Liste I – forsvarsrelaterte varer» i vedlegg I til forskrift 19. juni 2013 nr. 718 om eksport av forsvarsmateriell, flerbruksvarer, teknologi og tjenester, får anvendelse for dette vedlegget.

Uten at det berører § 20 i denne forskriften, skal ikke-kontrollerte produkter som inneholder en eller flere av komponentene oppført i dette vedlegget, ikke underlegges kontrollene i henhold til § 16a og § 16b i denne forskriften.

# **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);

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  $\mu$ s and bandwidth in MHz) of more than 100; or

c. A dispersive delay of more than 10  $\mu$ s;

<u>Technical Note</u>: For the purpose of X.A.I.001.i "Frequency side-lobe rejection" is the maximum rejection value specified in data sheet.

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  $^{\circ}$ 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:

<u>Note</u>: 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;

m. Hydrogen/hydrogen-isotope thyratrons of ceramic-metal construction and rate for a peak current of 500 A or more;

n. Not used;

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).

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.

<u>Note:</u> 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.

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  $\mu$ s 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  $\mu$ s 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 (2) 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:

<u>Note:</u> 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:

<u>Note</u>: 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 (3);

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;

c. Crystal pullers and furnaces, as follows:

Note: X.B.I.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 x 105 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

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 105 Pa;

2. PECVD equipment operating either below 60 Pa or having automatic cassette-to-cassette and load lock wafer handling;

<u>Note</u>: 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;

or

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  $\mu m$  or finer;

<u>Note:</u> 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  $\mu$ m 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  $\mu$ m or less, total indicator reading (TIR);

<u>Note:</u> 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  $\pm 1 \ \mu m$ ; or

2. Spot size (kerf width) less than 3  $\mu$ m.

<u>Technical Note:</u> 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. (<u>Note</u>: 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:

<u>Note:</u> 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 (4); or

2. Masks or reticles, having both of the following characteristics:

a. Their design is based on geometries of 2,5  $\mu m$  or more; and

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  $\mu$ m 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;

<u>Note:</u> 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  $\mu$ m or finer over a distance in one or two coordinates of 63,5 mm or more;

<u>Note:</u> 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:

<u>Note:</u> 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;

2. Alignment with a precision finer than  $\pm 0,25 \ \mu m$  (3 sigma);

3. Machine-to-machine overlay no better than  $\pm$  0,3  $\mu$ 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 µm;

<u>Note:</u> 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  $2,5 \ \mu m$ .

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 x 37,5 mm; and

3. Placement accuracy in the X-Y plane of finer than  $\pm 10 \ \mu m$ ;

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 (5) and that have a throughput equal to or more than one package per minute.

<u>Note:</u> 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  $0,3 \mu m$  or smaller per 0,02832 m3 and filter materials therefor.

<u>Technical Note:</u> 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.

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 (6) 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:

<u>Note:</u> 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  $0,6 \mu m$  or less in or on processed wafers, substrates, other than printed circuit boards or chips, using optical image acquisition techniques for pattern comparison;

<u>Note:</u> 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  $\mu m$  or finer;

c. Specially designed flatness measurement instruments capable of measuring deviations from flatness of 10  $\mu$ m or less with a resolution of 1  $\mu$ m 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;

<u>*Technical Note: Discrete semiconductor devices include photocells and solar cells.*</u>

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

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.

<u>Notes:</u> 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 (7) or X.A.I.001 provided such test equipment does not incorporate computing facilities with "user accessible programmability".

<u>Technical Note:</u> 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 focalplane 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  $32 \times 32$  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;

<u>Note:</u> 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.

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  $\mu$ m 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  $\mu$ m 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.

<u>Technical Note:</u> 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.C.I.001 Positive resists designed for semiconductor lithography specially adjusted (optimised) for use at wavelengths between 370 and 193 nm.

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 (8).

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.

## **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.

<u>Note:</u> 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

<u>N.B.1</u>: 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.

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

*c. The "technology" for the "digital computers" and related equipment is determined by 4E.* 

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;

<u>Note 1:</u> 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.

<u>Note 2</u>: 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;

<u>Technical Note</u>: 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.

<u>Note:</u> 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".

<u>Technical Note:</u> 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

c. Operating system "software" specially designed for "real-time processing" equipment that guarantees a "global interrupt latency time" of less than 20  $\mu$ s.

<u>Technical Note:</u> 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 (10) specially designed or modified for the "development", "production" or "use" of equipment controlled by 4A101.

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".

<u>Technical Note:</u> 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 (11), specially designed to operate outside the temperature range from 219 K ( $-54 \degree$ 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:

<u>Note:</u> Telecommunication transmission equipment:

- a. Categorised as follows, or combinations thereof:
  - 1. Radio equipment (e.g., transmitters, receivers and transceivers);
  - 2. Line terminating equipment;
  - 3. Intermediate amplifier equipment;
  - 4. Repeater equipment;
  - 5. Regenerator equipment;
  - 6. Translation encoders (transcoders);
  - 7. Multiplex equipment (statistical mutiplex 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;

<u>Note:</u> 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;

<u>Note:</u> 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.

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;

<u>Note:</u> 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.

<u>Notes:</u>

*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.

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:

<u>Note</u>: 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;

<u>Note:</u> 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;

<u>Note:</u> 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 quasiassociated 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

<u>Note:</u> 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;

<u>Note:</u> 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.

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";

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

<u>Note 2:</u> 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.

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 Recom-mendation 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 effiency" 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.

<u>Note</u>: 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 manu-facture of optical fibres controlled by X.A.III.101.

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.

<u>Technical Note:</u> 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 (12).

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

<u>Note:</u> 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 (13).

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  $\mu m$ ; 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  $\mu$ m.

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.

X.A.IV.003 Cameras as follows:

a. Cameras that meet the criteria of Note 3 to 6A003.b.4. (14);

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  $30^{\circ}$  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;

<u>*Technical Note:*</u> 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

3. A pulsed output with a "pulse duration" equal to or less than 10 µs; 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  $\mu$ 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 µs 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 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;

<u>Note:</u> 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".

<u>Technical Note:</u> 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.

<u>Technical Note</u>: 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  $\mu$ m and with associated input and output coupling circuits;

b. Designed to operate with a magnetic field slew rate exceeding 1 x 106 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  $\mu$ Gal; 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.

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 (15) and having a zinc content of equal to or more than 6 % by "mole fraction".

<u>Technical Note:</u> 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 (16);

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.

<u>*Technical Note:*</u> For the purpose of X.C.IV.002:

1) "Fluoride fibres" are fibres manufactured from bulk fluoride compounds.

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 x 10-3 nT (rms) per square root Hz at frequencies of 1 Hz or more.

e. "Technology""required" for the "development" or "production" of infrared upconversion 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.

<u>Technical Note:</u> 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;

<u>Technical Note:</u> 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 autofocusing or remote focusing specially designed for underwater use;

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. Not used;

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;

<u>Note:</u> 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.

## **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.

<u>Note:</u> 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.

<u>Technical Note:</u> 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.

<u>Note:</u> 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;

b. Tooling, fixtures or measuring equipment for the "laser", water jet or ECM/EDM hole drilling processes controlled by 9E003.c (17);

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 (18), 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 seismetics 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.

<u>Note 1:</u> Quantum computers perform computations that harness the collective properties of quantum states, such as superposition, interference and entanglement.

<u>Note 2:</u> Units, circuits and devices include but are not limited to superconducting circuits, Quantum annealing, Ion Trap, photonic interaction, silicon/spin, cold atoms.

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.0003.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;

<u>Note:</u> 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 %).

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.

<u>Note:</u> "Cryogenic refrigeration systems" include but are not limited to Dilution Refrigeration, Adiabatic Demagnisation Refrigerators and Laser Cooling Systems.

X.A.VIII.011 "Decapsulation" equipment for semiconductor devices.

<u>Note:</u> "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.AVIII.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.

<u>Note:</u> 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.

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.

<u>Note:</u> 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

*<u>Note:</u>* 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.

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;

<u>Note 1:</u> This item does not control equipment controlled by item ML7(e) of the CML of the European Union.

<u>Note 2:</u> 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.

<u>Note 3:</u> 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;

<u>Note 1:</u> 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.

<u>Note 2:</u> 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

<u>Note:</u> 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;

<u>Note 1:</u> This item does not control equipment controlled by item ML7(e) of the CML of the European Union.

<u>Note 2:</u> 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-acetylaminodicyclohexylmethane (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 thiopentone sodium;

b. Products containing one of the anaesthetic agents listed under X.A.VIII.022.a.

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. Trinitroxylene;
- 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);
- 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

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 (19), 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.

<u>Note:</u> 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.

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/hr 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);
  - 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);

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);
- 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); or
- 60. N,N-Diethylaminoethanol hydrochloride (CAS 14426-20-1).

X.C.IX.002 Fentanyl and its derivatives Alfentanil, Sufentanil, Remifentanil, Carfentanil, and salts thereof.

<u>Note:</u> 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

b. N-phenethyl-4-piperidone (CAS 39742-60-4).

<u>Notes:</u>

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 (20), for use in "composite" structures and with a specific modulus of  $3,18 \times 106$  m or greater and a specific tensile strength of  $7,62 \times 104$  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.

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";

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

<u>Note</u>: X.C.IX.006.1 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.

<u>Notes:</u>

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 (21) 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;

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 (22), 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;

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.

<u>Notes:</u> 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.

<u>Note 1:</u> Rare-earth metals and compounds include Scandium, Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium and Lutetium;

<u>Note 2:</u> For the purpose of the control X.C.IX.012 minerals containing rare-earth metals are excluded;

<u>Note 3:</u> *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.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.

<u>Note:</u> 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 color 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 (23).

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.

<u>Note:</u> 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  $^{\circ}$ 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. 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 (24):

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.

<u>Notes:</u>

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. 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

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  $\mu$ m along any linear axis (overall positioning) for grinding machines;

b. Better than 15  $\mu m$  along any linear axis (overall positioning) for milling machines; or

c. Better than 15  $\mu m$  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";

<u>Note:</u> X.B.X.004.d.1.a. applies to machine tools for grinding or milling only.

b. "Camming" (axial displacement) in one revolution of the spindle less (better) than 0,0006 mm total indicator reading (TIR);

<u>Note:</u> 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.

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  $(3 + L/300) \mu m$  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;

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 (25), regardless of their materials of construction.

<u>Note:</u> 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 m3/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 chloralkali 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.

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.

<u>Note:</u> 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.

<u>Note:</u> 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.

#### Del 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 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

CN Code	Description
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

# 3. Photographic cameras

CN Code	Description
8525 89	Other television cameras, digital cameras and video camera recorders
	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 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
	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 50	Other switches
8536 69	Plugs and sockets
	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
	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		
8485 90	Parts of machines for additive manufacturing'.	

Ny del D i vedlegg XII skal lyde:

CN Code	Description
8411 11	turbojets of a thrust <= 25 kn
8411 12	turbojets of a thrust > 25 kn
8411 21	turbopropellers of a power <= 1 100 kw

Del D

8411 22	turbopropellers of a power > 1 100 kw
8411 91	parts of turbojets or turbopropellers, n.e.s.'

Ny del C i vedlegg XXI skal lyde:

Del	С
DU	$\mathbf{v}$

CN Code	Description
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)
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'

Del A i vedlegg XXIII erstattes av følgende:

CN code	Description	
0601 10	Bulbs, tubers, tuberous roots, corms, crowns and rhizomes, dormant	
0601 20	Bulbs, tubers, tuberous roots, corms, crowns and rhizomes, in growth or in flower; chicory plants and roots	
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	

Del A

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 40	Other clays
2508 70	Chamotte or dinas earths
2509 00	Chalk
2512 00	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 12	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape
2515 20	Ecaussine and other calcareous monumental or building stone; alabaster
2518 20	Calcined or sintered dolomite
2519 10	Natural magnesium carbonate (magnesite)
2520 10	Gypsum; anhydrite
2521 00	Limestone flux; limestone and other calcareous stone, of a kind used for the manufacture of lime or cement
2522 10	Quicklime
2522 30	Hydraulic lime
2525 20	Mica powder
2526 20	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 - Crushed or powdered
2530 20	Kieserite, epsomite (natural magnesium sulphates)
2701 00	Coal; briquettes, ovoids and similar solid fuels manufactured from coal
2702 00	Lignite, whether or not agglomerated, excluding jet
2703 00	Peat (including peat litter), whether or not agglomerated
2704 00	Coke and semi-coke of coal, of lignite or of peat, whether or not agglomerated; retort carbon
2707 30	Xylol (xylenes)
2708 20	Pitch coke
2712 10	Petroleum jelly
2712 90	Petroleum jelly; paraffin wax, microcrystalline 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 00	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
2804 10	Hydrogen
2804 30	Nitrogen
2804 40	Oxygen
2804 61	Silicon - Containing by weight not less than 99,99 % of silicon
2804 80	Arsenic
2806 10	Hydrogen chloride (hydrochloric acid)
2806 20	Chlorosulphuric acid
2811 29	Other inorganic oxygen compounds of non-metals - Other
2813 10	Carbon disulphide
2814 20	Ammonia in aqueous solution
2815 12	Sodium hydroxide (caustic soda) - In aqueous solution (soda lye or liquid soda)
2818 30	aluminium hydroxide
2819 90	Chromium oxides and hydroxides - Other
2820 10	Manganese dioxide
2827 31	Other chlorides - Of magnesium
2827 35	Other chlorides - Of nikel
2828 90	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites - Other
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 90	Silicates; commercial alkali metal silicates - Other
2840 30	Peroxoborates (perborates)
2841 50	Other chromates and dichromates; peroxochromates
2841 80	Tungstates (wolframates)
2843 10	Colloidal precious metals

2843 21	Silver nitrate
2843 29	Silver compounds - Other
2843 30	Gold compounds
2847 00	Hydrogen peroxide, whether or not solidified with urea
2901 23	Butene (butylene) and isomers thereof
2901 24	Buta-1,3-diene and isoprene
2901 29	Acyclic hydrocarbons - Unsaturated - Other
2902 11	Cyclohexane
2902 30	Toluene
2902 41	o-xylene
2902 43	p-xylene
2902 44	Mixed xylene isomers
2902 50	Styrene
2903 11	Chloromethane (methyl chloride) and chloroethane (ethyl chloride)
2903 12	Dichloromethane (methylene chloride)
2903 21	Vinyl chloride (chloroethylene)
2903 23	Tetrachloroethylene (perchloroethylene)
2903 29	Unsaturated chlorinated derivatives of acyclic hydrocarbons - Other
2903 76	Bromochlorodifluoromethane (Halon-1211), bromotrifluoromethane (Halon-1301) and dibromotetrafluoroethanes (Halon-2402)
2903 81	1,2,3,4,5,6-Hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN)
2903 91	Chlorobenzene, o-dichlorobenzene and p-dichlorobenzene
2904 10	Derivatives containing only sulpho groups, their salts and ethyl esters
2904 20	Derivatives containing only nitro or only nitroso groups
2904 31	Perfluorooctane sulphonic acid
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 13	Sterols and inositols

2906 19	Cyclanic, cyclenic or cycloterpenic -Other
2907 11	Phenol (hydroxybenzene) and its salts
2907 13	Octylphenol, nonylphenol and their isomers; salts thereof
2907 19	Monophenols - Other
2907 22	Hydroquinone (quinol) and its salts
2909 11	Pentachlorophenol (ISO)
2909 20	Cyclanic, cyclenic or cycloterpenic ethers and their halogenated, sulphonated, nitrated or nitrosated derivatives
2909 41	2,2'-Oxydiethanol (diethylene glycol, digol)
2909 43	Monobutyl ethers of ethylene glycol or of diethylene glycol
2909 49	Ether-alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives - Other
2910 10	Oxirane (ethylene oxide)
2910 20	Methyloxirane (propylene oxide)
2911 00	Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivat
2912 12	Ethanal (acetaldehyde)
2912 49	Aldehyde-alcohols, aldehyde-ethers, aldehyde-phenols and aldehydes with other oxygen function - Other
2912 60	Paraformaldehyde
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 12	Esters of acrylic acid
2916 13	Methacrylic acid and its salts
2916 14	Esters of methacrylic acid
2916 15	Oleic, linoleic or linolenic acids, their salts and esters
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 90	Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives
3202 10	Synthetic organic tanning substances
3202 90	Synthetic organic tanning substances; inorganic tanning substances; tanning preparations, whether or not containing natural tanning substances; enzymatic preparations for pre-tanning
3203 00	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 00	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 liminophores) - Other
3207 10	Prepared pigments, prepared opacifiers, prepared colours and similar preparations
3207 20	Engobes (slips)
3207 30	Liquid lustres and similar preparations

3207 40	Glass frit and other glass, in the form of powder, granules or flakes
3208 10	Paints and varnishes (including enamels and lacquers) based on synthetic polymers or chemically modified natural polymers, dispersed or dissolved in a non-aqueous medium; solutions as defined in note 4 to Chapter 32 - Based on polyesters
3208 20	Paints and varnishes (including enamels and lacquers) based on synthetic polymers or chemically modified natural polymers, dispersed or dissolved in a non-aqueous medium; solutions as defined in note 4 to Chapter 32 - Based on acrylic or vinyl polymers
3208 90	Paints and varnishes (including enamels and lacquers) based on synthetic polymers or chemically modified natural polymers, dispersed or dissolved in a non-aqueous medium; solutions as defined in note 4 to Chapter 32 -
3209 10	paints and varnishes, incl. enamels and lacquers, based on acrylic or vinyl polymers, dispersed or dissolved in an aqueous medium
3209 90	paints and varnishes, incl. enamels and lacquers, based on synthetic or chemically modified natural polymers, dispersed or dissolved in an aqueous medium (excl. those based on acrylic or vinyl polymers) - Other
3210 00	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 10	Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics; painters' fillings
3214 90	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 - Other
3215 11	Printing ink - Black
3215 19	Printing ink - Other
3403 11	Lubricating preparations (including cutting-oil preparations, bolt or nut release preparations, anti-rust or anti-corrosion preparations and mould-release preparations, based on lubricants) and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 % or more by weight of petroleum oils or of oils obtained from bituminous minerals – Containing petroleum oils or oils obtained from bituminous minerals - Preparations for the treatment of textile materials, leather, furskins or other materials
3403 19	Lubricating preparations (including cutting-oil preparations, bolt or nut release preparations, anti-rust or anti-corrosion preparations and mould-release preparations, based on lubricants) and preparations of a kind used for the oil or

	grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 % or more by weight of petroleum oils or of oils obtained from bituminous minerals – Containing petroleum oils or oils obtained from bituminous minerals - Other
3403 91	Preparations for the treatment of textile materials, leather, furskins or other materials
3403 99	Lubricating preparations (including cutting-oil preparations, bolt or nut release preparations, anti-rust or anti-corrosion preparations and mould-release preparations, based on lubricants) and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 % or more by weight of petroleum oils or of oils obtained from bituminous minerals - Other
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 32	Other film, with silver halide emulsion
3702 39	Photographic film in rolls, sensitised, unexposed, of any material other than paper, paperboard or textiles; instant print film in rolls, sensitised, unexposed - Other
3702 43	Other film, without perforations, of a width exceeding 105 mm - Of a width exceeding 610 mm and of a length not exceeding 200 m
3702 44	Other film, without perforations, of a width exceeding 105 mm - Of a width exceeding 105 mm but not exceeding 610 mm
3702 55	Other film, for colour photography (polychrome) - Of a width exceeding 16 mm but not exceeding 35 mm and of a length exceeding 30 m
3702 56	Other film, for colour photography (polychrome) - Of a width exceeding 35 mm
3702 97	Other film, for colour photography (polychrome) - Of a width not exceeding 35 mm and of a length exceeding 30 mm.
3702 98	photographic film, sensitised, in rolls, unexposed, with perforations, for monochrome photography, width > 35 mm (excl. of paper, paperboard and textiles; x-ray film)
3703 20	photographic paper, paperboard and textiles, sensitised, unexposed, for colour photography "polychrome" (excl. products in rolls > 610 mm wide)
3703 90	photographic paper, paperboard and textiles, sensitised, unexposed, for monochrome photography (excl. products in rolls > 610 mm wide)

burgundy pitch, yellow pitch, stearin pitch, fatty acid pitch, fatty tar and glycerin pitch)3809 10finishing 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., based on starch or derivatives thereof3809 91finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3810 10pickling preparations for metal surfaces; soldering, brazing or welding pastes and powders consisting of metal and other materials3811 21prepared additives for oil lubricants containing petroleum oil or bituminous mineral oil3811 29prepared additives for oil lubricants not containing petroleum oil or bituminous mineral oil		
soundtrack or consisting only of soundtrack, width >= 35 mm           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 00         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 10         finishing agents, dyc 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., based on starch or derivatives thereof           3809 91         finishing agents, dyc carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)           3809 92         finishing agents, dyc carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)           3809 93         finishing agents, dyc carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)           3809 93         finishing agents, dyc carriers to accelerate t	3705 00	paper, paperboard or textiles, cinematographic film and ready-to-use printing
3806 20salts of rosin, of resin acids or of derivatives of rosin or resin acids (excl. salts of rosin adducts)3807 00wood 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 10finishing 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., based on starch or derivatives thereof3809 91finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of anylaceous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of anylaceous substances)3810 10pickling preparations for metal surfaces; soldering, brazing o	3706 10	
rosin adducts)3807 00wood 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 10finishing 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., based on starch or derivatives thereof3809 91finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaccous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaccous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaccous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaccous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in th	3801 20	colloidal or semi-colloidal graphite
<ul> <li>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)</li> <li>3809 10</li> <li>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., based on starch or derivatives thereof</li> <li>3809 91</li> <li>finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)</li> <li>3809 92</li> <li>finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)</li> <li>3809 92</li> <li>finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)</li> <li>3809 93</li> <li>finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)</li> <li>3810 10</li> <li>pickling preparations for metal surfaces; soldering, brazing or welding pastes and powders consisting of metal and other materials</li> <li>3811 21</li> <li>prepared additives for oil lubricants containing petroleum oil or bituminous miner oil</li> <li>3811 29</li> <li>prepared additives for oil lubricants not containing petroleum oil or bituminous mineral oil</li> <li>3811 90</li> <li>oxidation inhibitors, gum inhib</li></ul>	3806 20	
other products and preparations such as dressings and mordants of a kind used in the textile, paper, leather or like industries, n.e.s., based on starch or derivatives thereof3809 91finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3810 10pickling preparations for metal surfaces; soldering, brazing or welding pastes and powders consisting of metal and other materials3811 21prepared additives for oil lubricants containing petroleum oil or bituminous mineral oil3811 90oxidation 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 (excl. anti-knock	3807 00	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
other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 92finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the 	3809 10	other products and preparations such as dressings and mordants of a kind used in the textile, paper, leather or like industries, n.e.s., based on starch or derivatives
other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)3809 93finishing agents, dye carriers to accelerate the dyeing or fixing of dyestuffs, and other products and preparations, e.g. dressings and mordants of a kind used in the 	3809 91	other products and preparations, e.g. dressings and mordants of a kind used in the textile or similar industries, n.e.s. (excl. those with a basis of amylaceous
<ul> <li>other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaceous substances)</li> <li>3810 10 pickling preparations for metal surfaces; soldering, brazing or welding pastes and powders consisting of metal and other materials</li> <li>3811 21 prepared additives for oil lubricants containing petroleum oil or bituminous miner oil</li> <li>3811 29 prepared additives for oil lubricants not containing petroleum oil or bituminous mineral oil</li> <li>3811 90 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 (excl. anti-knock</li> </ul>	3809 92	other products and preparations, e.g. dressings and mordants of a kind used in the paper or similar industries, n.e.s. (excl. those with a basis of amylaceous
powders consisting of metal and other materials3811 21prepared additives for oil lubricants containing petroleum oil or bituminous miner oil3811 29prepared additives for oil lubricants not containing petroleum oil or bituminous mineral oil3811 90oxidation 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 (excl. anti-knock	3809 93	other products and preparations, e.g. dressings and mordants of a kind used in the leather or similar industries, n.e.s. (excl. those with a basis of amylaceous
oil3811 29prepared additives for oil lubricants not containing petroleum oil or bituminous mineral oil3811 90oxidation 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 (excl. anti-knock	3810 10	pickling preparations for metal surfaces; soldering, brazing or welding pastes and powders consisting of metal and other materials
<ul> <li>3811 90 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 (excl. anti-knock</li> </ul>	3811 21	prepared additives for oil lubricants containing petroleum oil or bituminous mineral oil
preparations and other prepared additives for mineral oils, incl. gasoline, or for other liquids used for the same purposes as mineral oils (excl. anti-knock	3811 29	
propulations and on fuoriount additives)	3811 90	preparations and other prepared additives for mineral oils, incl. gasoline, or for
3812 20 compound plasticisers for rubber or plastics, n.e.s.	3812 20	compound plasticisers for rubber or plastics, n.e.s.

3813 00	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 00	organic composite solvents and thinners, n.e.s.; prepared paint or varnish removers (excl. nail varnish remover)
3815 11	supported catalysts with nickel or a nickel compound as the active substance, n.e.s.
3815 12	supported catalysts with precious metal or a precious-metal compound as the active substance, n.e.s.
3815 19	supported catalysts, n.e.s. (excl. with precious metal, a precious-metal compound, nickel or a nickel compound as the active substance)
3815 90	reaction initiators, reaction accelerators and catalytic preparations, n.e.s. (excl. rubber accelerators and supported catalysts)
3816 00 10	Dolomite ramming mix
3817 00	mixed alkylbenzenes and mixed alkylnaphthalenes produced by the alkylation of benzene and naphthalene (excl. mixed isomers of cyclic hydrocarbons)
3819 00	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 00	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 00	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)
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 12	poly"vinyl acetate", in aqueous dispersion
3905 19	poly"vinyl acetate", in primary forms (excl. in aqueous dispersion)
3905 21	vinyl acetate copolymers, in aqueous dispersion
3905 29	vinyl acetate copolymers, in primary forms (excl. in aqueous dispersion)
3905 91	copolymers of vinyl, in primary forms (excl. vinyl chloride-vinyl acetate copolymers and other vinyl chloride copolymers, and vinyl acetate copolymers)
3906 10	poly"methyl methacrylate", in primary forms
3906 90	acrylic polymers, in primary forms (excl. poly"methyl methacrylate")
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 10	polyamides-6, -11, -12, -6,6, -6,9, -6,10 or -6,12, in primary forms
3908 90	polyamides, in primary forms (excl. polyamides-6, -11, -12, -6,6, -6,9, -6,10 and - 6,12)
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 >= 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)
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 11	styrene-butadiene rubber latex "sbr"; carboxylated styrene-butadiene rubber latex "xsbr"
4002 20	butadiene rubber "br", in primary forms or in plates, sheets or strip
4002 31	isobutylene isoprene rubber "iir", in primary forms or in plates, sheets or strip
4002 39	halo-isobutene-isoprene rubber "ciir" or "biir", in primary forms or in plates, sheets or strip
4002 41	chloroprene latex "chlorobutadiene rubber, cr"
4002 51	latex of acrylonitrile-butadiene rubber "nbr"
4002 80	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
4002 91	synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip (excl. styrene-butadiene rubber "sbr", carboxylated styrene-butadiene rubber "xsbr", butadiene rubber "br", isobutylene isoprene rubber "iir", halo- isobutene-isoprene rubber "ciir" or "biir", chloroprene rubber "cr", acrylonitrile- butadiene rubber "nbr", isoprene rubber "ir" and non-conjugated ethylene- propylene diene rubber "epdm")
4002 99	synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip (excl. latex, styrene-butadiene rubber "sbr", carboxylated styrene-butadiene rubber "xsbr", butadiene rubber "br", isobutylene isoprene rubber "iir", halo- isobutene-isoprene rubber "ciir" or "biir", chloroprene rubber "cr", acrylonitrile- butadiene rubber "nbr", isoprene rubber "ir" and non-conjugated ethylene- propylene diene rubber "epdm")
4005 10	rubber, unvulcanised, compounded with carbon black or silica, in primary forms or in plates, sheets or strip
4005 20	compounded rubber, unvulcanised, in the form of solutions or dispersions (excl. rubber compounded with carbon black or silica, and mixtures of natural rubber, balata, gutta-percha, guayule, chicle and similar natural gums containing synthetic rubber or factice derived from oils)
4005 91	compounded rubber, unvulcanised, in the form of plates, sheets or strip (excl. rubber compounded with carbon black or silica, and mixtures of natural rubber, balata, gutta-percha, guayule, chicle and similar natural gums containing synthetic rubber or factice derived from oils)
4005 99	compounded, unvulcanised rubber in primary forms (excl. solutions and dispersions, those containing carbon black or silica, mixtures of natural rubber, balata, gutta-percha, guayule, chicle or similar types of natural rubber with synthetic rubber or factice, and those in the form of 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 31	endless transmission belts of trapezoidal cross-section "v-belts", of vulcanised rubber, v-ribbed, of an outside circumference > 60 cm but <= 180 cm
4010 33	endless transmission belts of trapezoidal cross-section "v-belts", of vulcanised rubber, v-ribbed, of an outside circumference > 180 cm but <= 240 cm
4010 35	endless synchronous belts, of vulcanised rubber, of an outside circumference > 60 cm but <= 150 cm
4010 36	endless synchronous belts, of vulcanised rubber, of an outside circumference > 150 cm but <= 198 cm
4010 39	transmission belts or belting, of vulcanised rubber (excl. endless transmission belts of trapezoidal cross-section "v-belts", v-ribbed, of an outside circumference > 60 cm but <= 240 cm and endless synchronous belts of an outside circumference > 60 cm but <= 198 cm)
4012 11	retreaded pneumatic tyres, of rubber, of a kind used on motor cars "incl. station wagons and racing cars"
4012 13	retreaded pneumatic tyres, of rubber, of a kind used on aircraft
4012 19	retreaded pneumatic tyres, of rubber (excl. of a kind used on motor cars, station wagons, racing cars, buses, lorries and aircraft)
4012 20	used pneumatic tyres of rubber
4016 93	gaskets, washers and other seals, of vulcanised rubber (excl. hard rubber and those of cellular rubber)
4407 19	coniferous wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of > 6 mm (excl. pine " <i>pinus</i> spp.", fin " <i>abies</i> spp." and spruce " <i>picea</i> spp.")
4407 92	beech " <i>fagus</i> spp.", sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of $> 6$ mm
4407 94	cherry " <i>prunus</i> spp.", sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of $> 6$ mm
4407 97	poplar and aspen " <i>populus</i> spp.", sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of $> 6$ mm
4407 99	wood, sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness of > 6 mm (excl. tropical wood, coniferous wood, oak "quercus spp.", beech "fagus spp.", maple "acer spp.", cherry "prunus spp.", ash "fraxinus spp.", birch "betula spp.", poplar and aspen "populus spp.")

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 $\leq 6$ 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 $\leq 0.5$ g/cm <sup>3</sup> (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 31	plywood consisting solely of sheets of wood <= 6 mm thick, with at least one outer ply of tropical wood (excl. sheets of compressed wood, cellular wood panels, inlaid wood and sheets identifiable as furniture components)
4412 33	plywood consisting solely of sheets of wood <= 6 mm thick, with at least one outer ply of non-coniferous wood (excl. of bamboo, with an outer ply of tropical wood or of alder, ash, beech, birch, cherry, chestnut, elm, eucalyptus, hickory, horse chestnut, lime, maple, oak, plane tree, poplar, aspen, robinia, tulipwood or walnut, and sheets of compressed wood, cellular wood panels, inlaid wood and sheets identifiable as furniture components)
4412 94	laminated wood as blockboard, laminboard or battenboard (excl. of bamboo, plywood consisting solely of sheets of wood <= 6 mm thick, sheets of compressed wood, inlaid wood and sheets identifiable as furniture components)
4416 00	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 10	corks and stoppers of all types, of natural cork, incl. round-edged blanks
4504 10	tiles of any shape, blocks, plates, sheets and strip, solid cylinders, incl. discs, of agglomerated cork
4701 00	mechanical wood pulp, not chemically treated
4703 19	unbleached non-coniferous chemical wood pulp, soda or sulphate (excl. dissolving grades)
4703 21	semi-bleached or bleached coniferous chemical wood pulp, soda or sulphate (excl. dissolving grades)
4703 29	semi-bleached or bleached non-coniferous chemical wood pulp, soda or sulphate (excl. dissolving grades)

4704 11	unbleached coniferous chemical wood pulp, sulphite (excl. dissolving grades)
4704 21	semi-bleached or bleached coniferous chemical wood pulp, sulphite (excl. dissolving grades)
4704 29	semi-bleached or bleached non-coniferous chemical wood pulp, sulphite (excl. dissolving grades)
4705 00	wood pulp obtained by a combination of mechanical and chemical pulping processes
4706 30	pulps of fibrous cellulosic bamboo material
4706 92	chemical pulp of fibrous cellulosic material (excl. that of bamboo, wood, cotton linters and fibres derived from recovered [waste and scrap] paper or paperboard)
4707 10	recovered "waste and scrap" paper or paperboard of unbleached kraft paper, corrugated paper or corrugated paperboard
4707 30	recovered "waste and scrap" paper or paperboard made mainly of mechanical pulp, e.g. newspapers, journals and similar printed matter
4802 20	paper and paperboard of a kind used as a base for photosensitive, heat-sensitive or electrosensitive 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 $\leq 10$ % by weight of the total fibre content consists of such fibres, weighing $> 150$ g/m <sup>2</sup> , n.e.s.
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 11	unbleached kraftliner, uncoated, in rolls of a width $> 36$ cm
4804 19	kraftliner, uncoated, in rolls of a width > 36 cm (excl. unbleached and goods of heading 4802 and 4803 )
4804 21	unbleached sack kraft paper, uncoated, in rolls of a width > 36 cm (excl. goods of heading 4802, 4803 or 4808)
4804 29	sack kraft paper, uncoated, in rolls of a width > 36 cm (excl. unbleached, and goods of heading 4802, 4803 or 4808)
4804 31	unbleached kraft 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, weighing $\leq 150 \text{ g/m}^2$ (excl. kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808)

4804 39	kraft 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, weighing <= 150 g/m <sup>2</sup> (excl. unbleached, kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808)
4804 41	unbleached kraft 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, weighing > 150 g to < 225 g/m <sup>2</sup> (excl. kraftliner, sack kraft paper, and goods of heading 4802, 4803 or 4808)
4804 42	kraft 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, weighing > 150 g to < 225 g/m <sup>2</sup> , bleached uniformly in the mass, containing > 95 % chemically processed wood fibre by weight in relation to the total fibre content (excl. kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808)
4804 49	kraft 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, weighing > 150 g to < 225 g/m <sup>2</sup> (excl. unbleached, bleached uniformly in the mass and containing > 95 % chemically processed wood fibre by weight in relation to the total fibre content, kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808)
4804 52	kraft 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, weighing >= 225 g/m <sup>2</sup> , bleached uniformly in the mass, containing > 95 % chemically processed wood fibre by weight in relation to the total fibre content (excl. kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808)
4804 59	kraft 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, weighing >= 225 g/m <sup>2</sup> (excl. unbleached or bleached uniformly in the mass and containing > 95 % chemically prepared wood fibre by weight in relation to the total fibre content, and kraftliner, sack kraft paper and goods of heading 4802, 4803 or 4808 )
4805 24	testliner "recycled liner board", 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, weighing $\leq 150 \text{ g/m}^2$
4805 25	testliner "recycled liner board", 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, weighing > 150 g/m <sup>2</sup>
4805 40	filter 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

4805 91	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, weighing $\leq 150 \text{ g/m}^2$ , n.e.s.
4805 92	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, weighing > 150 g to < 225 g/m <sup>2</sup> , n.e.s.
4806 10	vegetable parchment, 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
4806 20	greaseproof 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
4806 30	tracing 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
4806 40	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 (excl. vegetable parchment, greaseproof papers and tracing papers)
4807 00	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 90	paper and paperboard, 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. sack kraft and other kraft paper, and goods of heading 4803)
4809 20	self-copy paper, 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 (excl. carbon and similar copying papers)
4810 13	paper and paperboard used for writing, printing or other graphic purposes, 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, coated on one or both sides with kaolin or other inorganic substances, in rolls of any size
4810 19	paper and paperboard used for writing, printing or other graphic purposes, not containing fibres obtained by a mechanical or chemi-mechanical process or of which $\leq 10$ % by weight of the total fibre content consists of such fibres, coated on one or both sides with kaolin or other inorganic substances, in square or rectangular sheets with one side $\geq 435$ mm or with one side $\leq 297$ mm in the unfolded state
4810 22	lightweight coated paper used for writing, printing or other graphic purposes, total weight $\leq 72 \text{ g/m}^2$ , coating weight $\leq 15 \text{ g/m}^2$ per side, on a base of which $\geq 50 \%$ by weight of the total fibre content consists of fibres obtained by a

	mechanical process, coated on both sides with kaolin or other inorganic substances, in rolls or in square or rectangular sheets, of any size
4810 31	kraft paper and paperboard, bleached uniformly throughout the mass and containing > 95 % chemically processed wood fibres by weight in relation to the total fibre content, coated on one or both sides with kaolin or other inorganic substances, in rolls or in square or rectangular sheets, of any size, weighing <= $150 \text{ g/m}^2$ (excl. that for writing, printing or other graphic purposes)
4810 39	kraft paper and paperboard, coated on one or both sides with kaolin or other inorganic substances, in rolls or in square or rectangular sheets, of any size (excl. that for writing, printing or other graphic purposes; paper and paperboard bleached uniformly in the mass and containing $> 95$ % chemically processed wood fibres by weight in relation to the total fibre content)
4810 92	multi-ply paper and paperboard, coated on one or both sides with kaolin or other inorganic substances, in rolls or in square or rectangular sheets, of any size (excl. that for writing, printing or other graphic purposes, kraft paper and paperboard)
4810 99	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. that for writing, printing or other graphic purposes, kraft paper and paperboard, multi-ply paper and paperboard, and with no other coating)
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 $> 150 \text{ g/m}^2$ (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 <sup>2</sup> , 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)
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 10	bobbins, spools, cops and similar supports of paper pulp, paper or paperboard, whether or not perforated or hardened, for winding textile yarn
4823 20	filter paper and paperboard, in strips or rolls of a width $\leq 36$ 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
4823 40	rolls, sheets and dials, printed for self-recording apparatus, in rolls of a width <= 36 cm, in rectangular or square sheets of which no side > 36 cm in the unfolded state, or cut into dials
4823 70	moulded or pressed articles of paper pulp, n.e.s.
4906 00	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 39	fine animal hair, carded or combed (excl. wool and hair of kashmir "cashmere" goats)
5105 40	coarse animal hair, carded or combed
5106 10	carded wool yarn containing >= 85 % wool by weight (excl. that put up for retail sale)
5106 20	carded wool yarn containing predominantly, but < 85 % wool by weight (excl. that put up for retail sale)
5107 20	yarn of combed wool containing predominantly, but < 85 % wool by weight (excl. that put up for retail sale)
5112 11	woven fabrics containing $\geq 85$ % combed wool or combed fine animal hair by weight and weighing $\leq 200$ g/m <sup>2</sup> (excl. fabrics for technical uses of heading 5911)
5112 19	woven fabrics containing $\geq 85$ % combed wool or combed fine animal hair by weight and weighing $\geq 200$ g/m <sup>2</sup>
5205 21	single cotton yarn, of combed fibres, containing $\geq 85$ % cotton by weight and with a linear density of $\geq 714,29$ decitex " $\leq mn$ 14" (excl. sewing thread and yarn put up for retail sale)
5205 28	single cotton yarn, of combed fibres, containing >= 85 % cotton by weight and with a linear density of < 83,33 decitex "> mn 120" (excl. sewing thread and yarn put up for retail sale)
5205 41	multiple "folded" or cabled cotton yarn, of combed fibres, containing $\geq 85 \%$ cotton by weight and with a linear density of $\geq 714,29$ decitex " $\leq mn 14$ " per single yarn (excl. sewing thread and yarn 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 $\geq 85$ % cotton by weight and weighing $\geq 200$ g/m <sup>2</sup> , unbleached
5211 19	woven fabrics of cotton, containing predominantly, but $< 85 \%$ cotton by weight, mixed principally or solely with man-made fibres and weighing $> 200 \text{ g/m}^2$ , unbleached (excl. those in three-thread or four-thread twill, incl. cross twill, and plain woven fabrics)
5211 51	plain woven fabrics of cotton, containing predominantly, but < 85 % cotton by weight, mixed principally or solely with man-made fibres and weighing > $200 \text{ g/m}^2$ , printed
5211 59	woven fabrics of cotton, containing predominantly, but $< 85 \%$ cotton by weight, mixed principally or solely with man-made fibres and weighing $> 200 \text{ g/m}^2$ , printed (excl. those in three-thread or four-thread twill, incl. cross twill, and plain woven fabrics)
5308 20	hemp 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 33	filament yarn of cellulose acetate, incl. monofilament of $< 67$ decitex, single (excl. sewing thread, high-tenacity yarn and yarn put up for retail sale)
5403 42	multiple "folded" or cabled filament yarn of cellulose acetate, incl. monofilament of $< 67$ decitex (excl. sewing thread, high-tenacity yarn and yarn put up for retail sale)
5404 12	polypropylene monofilament of $\geq 67$ decitex and with a cross sectional dimension of $\leq 1 \text{ mm}$ (excl. elastomers)
5404 19	synthetic monofilament of >= 67 decitex and with a cross sectional dimension of <= 1 mm (excl. of elastomers and polypropylene)
5404 90	strip and the like, e.g. artificial straw, of synthetic textile material, with an apparent width of $\leq 5 \text{ mm}$
5407 30	woven fabrics of synthetic filament yarn, incl. monofilament of $\geq 67$ decitex and with a cross sectional dimension of $\leq 1$ 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 90	synthetic filament tow as specified in note 1 to chapter 55 (excl. that of acrylic, modacrylic, polyesters, polypropylene, nylon or other polyamide filament)
5502 10	artificial filament tow as specified in note 1 to chapter 55, of acetate

5503 19	staple fibres of nylon or other polyamides, not carded, combed or otherwise processed for spinning (excl. those of aramids)
5503 40	staple fibres of polypropylene, 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 40	staple fibres of polypropylene, carded, combed or otherwise processed for spinning
5507 00	artificial staple fibres, carded, combed or otherwise processed for spinning
5512 21	woven fabrics containing $\geq 85$ % acrylic or modacrylic staple fibres by weight, unbleached or bleached
5512 99	woven fabrics containing $\geq 85$ % synthetic staple fibres by weight, dyed, made of yarn of different colours or printed (excl. those of acrylic, modacrylic or polyester staple fibres)
5516 44	woven fabrics containing predominantly, but < 85 % artificial staple fibres by weight, mixed principally or solely with cotton, printed
5516 94	woven fabrics containing predominantly, but < 85 % artificial staple fibres by weight, other than those mixed principally or solely with cotton, wool, fine animal hair or man-made filament, printed
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 90	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 00	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 )

5806 40	narrow fabrics consisting of warp without weft assembled by means of an adhesive "bolducs", with a width of $\leq 30$ cm
5901 10	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
5905 00	textile wallcoverings
5908 00	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)
5910 00	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 $< 650 \text{ g/m}^2$
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 $>= 650 \text{ g/m}^2$
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 40	knitted or crocheted fabrics of artificial fibres, of a width of $\leq 30$ cm (excl. those containing by weight $\geq 5$ % of elastomeric yarn or rubber thread, and pile fabrics, incl. "long pile", looped pile fabrics, labels, badges and similar articles, knitted or crocheted fabrics, impregnated, coated, covered or laminated, and sterile surgical or dental adhesion barriers of subheading 3006.10.30)
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 00	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)
6806 10	slag-wool, rock-wool and similar mineral wools, incl. intermixtures thereof, in bulk, sheets or rolls
6806 90	mixtures and articles of heat-insulating, sound-insulating or sound absorbing mineral materials (excl. slag-wool, rock-wool and similar mineral wools, exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials, articles of light concrete, asbestos-cement, cellulose fibre-cement or the like, mixtures and other articles of or based on asbestos, and ceramic products)
6807 10	articles of asphalt or of similar materials, e.g. petroleum bitumen or coal tar pitch, in rolls
6807 90	articles of asphalt or of similar materials, e.g. petroleum bitumen or coal tar pitch (excl. in rolls)
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 81	corrugated sheets of cellulose fibre-cement or the like, not containing asbestos

6811 82	sheets, panels, paving, tiles and similar articles, of cellulose fibre-cement or the like, not containing asbestos (excl. corrugated sheets)
6811 89	articles of cellulose fibre-cement or the like, not containing asbestos (excl. corrugated and other sheets, panels, tiles and similar articles)
6813 89	friction material and articles thereof, e.g. sheets, rolls, strips, segments, discs, washers and pads, for clutches and the like, with a basis of mineral substances or cellulose, whether or not combined with textile or other materials (excl. containing asbestos, and brake linings and pads)
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 00	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 10	roofing tiles
6905 90	ceramic chimney pots, cowls, chimney liners, architectural ornaments and other ceramic constructional goods (excl. of siliceous fossil meals or similar siliceous earths, refractory ceramic constructional components, pipes and other components for drainage and similar purposes, and roofing tiles)
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 20	rods of glass, unworked
7002 31	tubes of fused quartz or other fused silica, unworked
7002 32	tubes of glass having a linear coefficient of expansion $\leq 5 \ge 10-6$ per kelvin within a temperature range of 0°c to 300°c, unworked (excl. tubes of glass having a linear coefficient of expansion $\leq 5 \ge 10-6$ per kelvin within a temperature range of 0°c to 300°c)

7002 39	tubes of glass, unworked (excl. tubes of glass having a linear coefficient of expansion $\leq 5 \ge 10-6$ per kelvin within a temperature range of 0°c to 300°c or of fused quartz or other fused silica)
7003 30	profiles of glass, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked
7004 20	sheets of glass, drawn or blown, coloured throughout the mass "body tinted" opacified, flashed or having an absorbent, reflecting or non-reflecting layer, but not otherwise worked
7005 10	float glass and surface ground or polished glass, in sheets, having an absorbent, reflecting or non-reflecting layer, but not otherwise worked (excl. wired glass)
7005 30	float glass and surface ground and polished glass, in sheets, whether or not having an absorbent, reflecting or non-reflecting layer, wired, but not otherwise worked
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 12	semi-finished products of iron or non-alloy steel containing, by weight, $< 0.25 \%$ of carbon, of rectangular "other than square" cross-section, the width measuring $>=$ twice the thickness
7210 90	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 (excl. tinned, plated or coated with lead, zinc, chromium oxides, chromium and chromium oxides, or aluminium, painted, varnished or coated with plastics)
7211 13	flat-rolled products of iron or non-alloy steel, simply hot-rolled on four faces or in a closed box pass, not clad, plated or coated, of a width of $> 150$ mm but $< 600$ mm and a thickness of $>= 4$ mm, not in coils, without patterns in relief, commonly known as "wide flats"
7211 14	flat-rolled products of iron or non-alloy steel, of a width < 600 mm, not further worked than hot-rolled, not clad, plated or coated, of a thickness of >= 4,75 mm (excl. "wide flats")
7211 29	flat-rolled products of iron or non-alloy steel, of a width of $< 600$ mm, simply cold-rolled "cold-reduced", not clad, plated or coated, containing by weight $>= 0.25$ % of carbon
7212 10	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", tinned

7212 60	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", clad
7213 20	bars and rods, hot-rolled, in irregularly wound coils, of non-alloy free-cutting steel (excl. bars and rods containing indentations, ribs, grooves or other deformations produced during the rolling process)
7213 99	bars and rods, hot-rolled, in irregularly wound coils, of iron or non-alloy steel (excl. products of circular cross-section measuring < 14 mm in diameter, bars and rods of free-cutting steel, and bars and rods with indentations, ribs, grooves or other deformations produced during the rolling process)
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 10	u, i or h sections of iron or non-alloy steel, not further worked than hot-rolled, hot-drawn or extruded, of a height of $< 80$ mm
7216 22	t sections of iron or non-alloy steel, not further worked than hot-rolled, hot-drawn or extruded, of a height of $< 80$ mm
7216 33	h sections of iron or non-alloy steel, not further worked than hot-rolled, hot-drawn or hot-extruded, of a height >= 80 mm
7216 69	angles, shapes and sections, of iron or non-alloy steel, not further worked than cold-formed or cold-finished (excl. profiled sheet)
7218 91	semi-finished products of stainless steel, of rectangular "other than square" cross- section
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 10	steel, alloy, other than stainless, in ingots or other primary forms (excl. waste and scrap in ingot form, and products obtained by continuous casting)
7225 19	flat-rolled products of silicon-electrical steel, of a width of >= 600 mm, non-grain- oriented
7225 30	flat-rolled products of alloy steel other than stainless, of a width of >= 600 mm, not further worked than hot-rolled, in coils (excl. products of silicon-electrical steel)
7225 99	flat-rolled products of alloy steel other than stainless, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced" and further worked (excl. plated or coated with zinc and products of silicon-electrical steel)
7226 91	flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, not further worked than hot-rolled (excl. products of high-speed steel or silicon-electrical steel)
7228 30	bars and rods of alloy steel other than stainless, not further worked than hot-rolled, hot-drawn or extruded (excl. products of high-speed steel or silico-manganese

	steel, semi-finished products, flat-rolled products and hot-rolled bars and rods in irregularly wound coils)
7228 60	bars and rods of alloy steel other than stainless, cold-formed or cold-finished and further worked or hot-formed and further worked, n.e.s. (excl. products of high- speed steel or silico-manganese steel, semi-finished products, flat-rolled products and hot-rolled bars and rods in irregularly wound coils)
7228 70	angles, shapes and sections of alloy steel other than stainless, n.e.s.
7228 80	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
7309 00	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
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 10	bars, rods and profiles, of refined copper
7408 11	wire of refined copper, with a maximum cross-sectional dimension of > 6 mm
7408 19	wire of refined copper, with a maximum cross-sectional dimension of <= 6 mm

(excl. expanded sheet and strip and electrically insulated strip)         7409 40       plates, sheets and strip, of copper-nickel silver", of a thickness of > 0,15 mm (excl. expanded sheet and strip and electrically insulated strip)         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")         7415 21       washers, "incl. spring washers and spring lock washers", of copper         7505 11       bars, rods, profiles and wire, of non-alloy nickel, n.e.s. (excl. electrically insulated products)         7505 21       wire of non-alloy nickel (excl. electrically insulated products)         7506 10       plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)         7507 11       tubes and pipes of non-alloy nickel         7605 19       Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 electrically insulated wires, strings for musical instruments)         7605 29       Wire, of aluminium alloys, having a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)         7606 92       Plates, sheets and strip, of aluminium alloys, of a thickness of > 0,2 mm (other that square or rectangular)         7607 20       Aluminium foil, backed, of a thickness (excl. any backing) of <= 0,2 mm (excl. stamping foils of		
(excl. expanded sheet and strip and electrically insulated strip)         7409 40       plates, sheets and strip, of copper-nickel silver", of a thickness of > 0,15 mm (excl. expanded sheet and strip and electrically insulated strip)         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")         7415 21       washers, "incl. spring washers and spring lock washers", of copper         7505 11       bars, rods, profiles and wire, of non-alloy nickel, n.e.s. (excl. electrically insulated products)         7505 21       wire of non-alloy nickel (excl. electrically insulated products)         7506 10       plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)         7507 11       tubes and pipes of non-alloy nickel         7605 19       Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 electrically insulated wires, strings for musical instruments)	7409 11	
nickel-zinc base alloys "nickel silver", of a thickness of > 0,15 mm (excl. expanded sheet and strip and electrically insulated strip)           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")           7415 21         washers, "incl. spring washers and spring lock washers", of copper           7505 11         bars, rods, profiles and wire, of non-alloy nickel, n.e.s. (excl. electrically insulated products)           7505 21         wire of non-alloy nickel (excl. electrically insulated products)           7506 10         plates, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)           7507 11         tubes and pipes of non-alloy nickel           7605 19         Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614, electrically insulated wires, strings for musical instruments)	7409 19	plates, sheets and strip, of refined copper, not in coils, of a thickness of $> 0,15$ mm (excl. expanded sheet and strip and electrically insulated strip)
nickel base alloys "cupro-nickel" and copper-nickel-zinc base alloys "nickel silver")         7415 21       washers, "incl. spring washers and spring lock washers", of copper         7505 11       bars, rods, profiles and wire, of non-alloy nickel, n.e.s. (excl. electrically insulated products)         7505 21       wire of non-alloy nickel (excl. electrically insulated products)         7506 10       plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)         7507 11       tubes and pipes of non-alloy nickel         7508 90       articles of nickel         7605 19       Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)	7409 40	nickel-zinc base alloys "nickel silver", of a thickness of > 0,15 mm (excl. expanded
<ul> <li>7505 11</li> <li>bars, rods, profiles and wire, of non-alloy nickel, n.e.s. (excl. electrically insulated products)</li> <li>7505 21</li> <li>wire of non-alloy nickel (excl. electrically insulated products)</li> <li>7506 10</li> <li>plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)</li> <li>7507 11</li> <li>tubes and pipes of non-alloy nickel</li> <li>7605 19</li> <li>Wire of non-alloy aluminium, with a maximum cross-sectional dimension of &lt;= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)</li> <li>7605 29</li> <li>Wire, of aluminium alloys, having a maximum cross-sectional dimension of &lt;= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)</li> <li>7606 92</li> <li>Plates, sheets and strip, of aluminium alloys, of a thickness of &gt; 0,2 mm (other thar square or rectangular)</li> <li>7607 20</li> <li>Aluminium foil, backed, of a thickness (excl. any backing) of &lt;= 0,2 mm (excl. stamping foils of heading 3212 , and foil made up as christmas tree decorating material (other than compressed or liquefied gas), of a capacity of &gt; 300 I, 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)</li> <li>7612 90</li> <li>Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &lt;= 300 I, n.e.s.</li> </ul>	7411 29	nickel base alloys "cupro-nickel" and copper-nickel-zinc base alloys "nickel
products)7505 21wire of non-alloy nickel (excl. electrically insulated products)7506 10plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)7507 11tubes and pipes of non-alloy nickel7508 90articles of nickel7605 19Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7605 29Wire, of aluminium alloys, having a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7606 92Plates, sheets and strip, of aluminium alloys, of a thickness of > 0,2 mm (other than square or rectangular)7607 20Aluminium 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)7611 00Reservoirs, 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 90Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7415 21	washers, "incl. spring washers and spring lock washers", of copper
7506 10       plates, sheets, strip and foil, of non-alloy nickel (excl. expanded plates, sheets or strip)         7507 11       tubes and pipes of non-alloy nickel         7508 90       articles of nickel         7605 19       Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614, electrically insulated wires, strings for musical instruments)	7505 11	-
strip)7507 11tubes and pipes of non-alloy nickel7508 90articles of nickel7605 19Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7605 29Wire, of aluminium alloys, having a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7606 92Plates, sheets and strip, of aluminium alloys, of a thickness of > 0,2 mm (other than square or rectangular)7607 20Aluminium 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)7611 00Reservoirs, 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 90Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7505 21	wire of non-alloy nickel (excl. electrically insulated products)
7508 90       articles of nickel         7605 19       Wire of non-alloy aluminium, with a maximum cross-sectional dimension of <=	7506 10	
<ul> <li>Wire of non-alloy aluminium, with a maximum cross-sectional dimension of &lt;= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614, electrically insulated wires, strings for musical instruments)</li> <li>Wire, of aluminium alloys, having a maximum cross-sectional dimension of &lt;= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614, electrically insulated wires, cables, ropes and other articles of heading 7614, electrically insulated wires, strings for musical instruments)</li> <li>Plates, sheets and strip, of aluminium alloys, of a thickness of &gt; 0,2 mm (other than square or rectangular)</li> <li>Aluminium foil, backed, of a thickness (excl. any backing) of &lt;= 0,2 mm (excl. stamping foils of heading 3212, and foil made up as christmas tree decorating material)</li> <li>Reservoirs, tanks, vats and similar containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &gt; 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)</li> <li>Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &lt;= 300 l, n.e.s.</li> </ul>	7507 11	tubes and pipes of non-alloy nickel
7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7605 29Wire, of aluminium alloys, having a maximum cross-sectional dimension of <= 7 mm (other than stranded wires, cables, ropes and other articles of heading 7614 , electrically insulated wires, strings for musical instruments)7606 92Plates, sheets and strip, of aluminium alloys, of a thickness of > 0,2 mm (other than square or rectangular)7607 20Aluminium 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)7611 00Reservoirs, 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 90Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7508 90	articles of nickel
<ul> <li>7 mm (other than stranded wires, cables, ropes and other articles of heading 7614, electrically insulated wires, strings for musical instruments)</li> <li>Plates, sheets and strip, of aluminium alloys, of a thickness of &gt; 0,2 mm (other than square or rectangular)</li> <li>Aluminium foil, backed, of a thickness (excl. any backing) of &lt;= 0,2 mm (excl. stamping foils of heading 3212, and foil made up as christmas tree decorating material)</li> <li>Reservoirs, tanks, vats and similar containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &gt; 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)</li> <li>Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &lt;= 300 l, n.e.s.</li> </ul>	7605 19	7 mm (other than stranded wires, cables, ropes and other articles of heading 7614
<ul> <li>square or rectangular)</li> <li>7607 20 Aluminium foil, backed, of a thickness (excl. any backing) of &lt;= 0,2 mm (excl. stamping foils of heading 3212, and foil made up as christmas tree decorating material)</li> <li>7611 00 Reservoirs, tanks, vats and similar containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &gt; 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)</li> <li>7612 90 Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of &lt;= 300 l, n.e.s.</li> </ul>	7605 29	<= 7 mm (other than stranded wires, cables, ropes and other articles of
stamping foils of heading 3212 , and foil made up as christmas tree decorating material)7611 00Reservoirs, 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 90Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7606 92	Plates, sheets and strip, of aluminium alloys, of a thickness of $> 0,2$ mm (other than square or rectangular)
(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 90Casks, drums, cans, boxes and similar containers, incl. rigid tubular containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7607 20	stamping foils of heading 3212, and foil made up as christmas tree decorating
aluminium, for any material (other than compressed or liquefied gas), of a capacity of <= 300 l, n.e.s.	7611 00	(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.
7613.00 Aluminium containers for compressed or liquefied gas	7612 90	aluminium, for any material (other than compressed or liquefied gas), of a capacity
rest of a multimum containers for compressed of inquened gas	7613 00	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 11	Lead plates, sheets, strip and foil; lead powders and flakes - Plates, sheets, strip and foil - Sheets, strip and foil of a thickness (excluding any backing) not exceeding 0,2 mm
7804 19	Lead plates, sheets, strip and foil; lead powders and flakes - Plates, sheets, strip and foil - Other
7905 00	Zinc plates, sheets, strip and foil
8001 20	Unwrought tin alloys
8003 00	Tin bars, rods, profiles and wire
8007 00	Articles of tin
8101 10	Tungsten powders
8102 97	Molybdenum waste and scrap (excl. ash and residues containing molybdenum)
8105 90	Articles of cobalt
8109 31	Zirconium waste and scrap - Containing less than 1 part hafnium to 500 parts zirconium by weight
8109 39	Zirconium waste and scrap - Other
8109 91	Articles of zirconium - Containing less than 1 part hafnium to 500 part zirconium by weight
8109 99	Articles of zirconium - Other
8202 20	Bandsaw blades of base metal
8207 60	Tools for boring or broaching
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 10	Flexible tubing of iron or steel, with or without fittings

8309 90	Stoppers, caps and lids, incl. screw caps and pouring stoppers, capsules for bottles, threaded bungs, bung covers, seals and other packing accessories of base metal (excl. crow corks)
8402 12	Watertube boilers with a steam production not exceeding 45 tonnes per hour
8402 19	Other vapour generating boilers, including hybrid boilers
8402 20	Superheated water boilers
8402 90	Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers - Parts
8404 10	Auxiliary plant for use with boilers of heading 8402 or 8403, e.g. economizers, superheaters, soot removers and gas recoverers;
8404 20	Condensers for steam or other vapour power units
8404 90	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
8405 90	Parts of producer gas or water gas generators and acetylene gas generators or similar water process gas generators, n.e.s.
8406 90	Steam turbines and other vapour turbines - Parts
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
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 10	Furnace burners for liquid fuel
8416 20	Furnace burners for pulverised solid fuel or gas, incl. combination burners
8416 30	Mechanical stokers, incl. their mechanical grates, mechanical ash dischargers and similar appliances (excl. burners)
8416 90	Parts of furnace burners such as mechanical stokers, incl. their mechanical grates, mechanical ash dischargers and similar appliances
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)
8420 99	Parts of calendering or other rolling machines, other than for metals or glass, and cylinders therefor - Other
8421 19	Centrifuges, including centrifugal dryers - other
8421 91	Parts of centrifuges, incl. centrifugal dryers
8424 89 40	Mechanical appliances for projecting, dispersing, or spraying of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies
8424 90 20	Parts of mechanical appliances of subheading 8424 89 40
8425 11	Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles powered by electric motor
8426 12	Mobile lifting frames on tyres and straddle carriers
8426 99	Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane - Other
8428 20	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 90	Other machinery
8429 19	Bulldozers and angledozers - Other
8429 59	Mechanical shovels, excavators and shovel loaders - Other
8430 10	Piledrivers and pile extractors
8430 39	Coal or rock cutters and tunnelling machinery - Other
8439 10	Machinery for making pulp of fibrous cellulosic material
8439 30	Machinery for finishing paper or paperboard
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 91	Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442
8444 00	Machines for extruding, drawing, texturing or cutting man-made textile materials
8448 11	Dobbies and jacquards; card-reducing, copying, punching or assembling machines for use therewith
8448 19	Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447 - Other
8448 33	Spindles, spindle flyers, spinning rings and ring travellers
8448 42	Reeds for looms, healds and heald-frames
8448 49	Parts and accessories of weaving machines (looms) or of their auxiliary machinery - Other
8448 51	Sinkers, needles and other articles used in forming stitches
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 10	Machinery for preparing, tanning or working hides, skins or leather
8453 80	Other machinery
8453 90	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines - Parts
8454 10	Converters
8459 10	Way-type unit head machines
8459 70	Other threading or tapping machines
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
8465 20	Machining centres

8465 93	Grinding, sanding or polishing machines
8465 94	Bending or assembling machines
8466 10	Tool holders and self-opening dieheads
8466 91	Other parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand - For machines of heading 8464
8466 92	Other parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand - For machines of heading 8465
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 21	Parts and accessories of the electronic calculating machines of subheading 8470 10, 8470 21 or 8470 29
8474 10	Sorting, screening, separating or washing machines
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 21	Machines for making optical fibres and preforms thereof
8475 29	Machines for manufacturing or hot working glass or glassware - Other
8475 90	Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware - Parts
8477 40	Vacuum-moulding machines and other thermoforming machines
8477 51	For moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes
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 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
8481 10	Pressure-reducing valves
8481 20	Valves for oleohydraulic or pneumatic transmissions
8481 40	Safety or relief valves
8482 20	Tapered roller bearings, including cone and tapered roller assemblies
8482 91	Balls, needles and rollers
8482 99	Other parts
8484 10	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal
8484 20	Mechanical seals
8484 90	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 - Other
8501 33	Other DC motors; DC generators, other than photovoltaic generators - of an output exceeding 75 kW but not exceeding 375 kW
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 31	Generating sets, wind-powered
8502 39	Other generating sets - Other
8502 40	Electric rotary converters
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
8505 20	Electromagnetic couplings, clutches and brakes
8506 90	Primary cells and primary batteries - Parts

8507 30	Electric accumulators, including separators therefor, whether or not rectangular (including square) - Nickel-cadmium
8514 31	Electron beam furnaces
8525 50	Transmission apparatus
8530 90	Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 8608) - Parts
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"
8533 29	Other fixed resistors - Other
8535 30	Isolating switches and make-and-break switches
8535 90	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1 000 V - Other
8539 41	Arc lamps
8540 20	Television camera tubes; image converters and intensifiers; other photocathode tubes
8540 60	Other cathode ray tubes
8540 79	Microwave tubes (for example, magnetrons, klystrons, travelling-wave tubes, carcinotrons), excluding grid-controlled tubes - Other
8540 81	Receiver or amplifier valves and tubes
8540 89	Other valves and tubes - Other
8540 91	Parts of cathode ray tubes
8540 99	Other parts
8543 10	Particle accelerators
8547 90	Insulating fittings for electrical machines, appliances or equipment, being fittings wholly of insulating material apart from any minor components of metal (for example, 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 - Other
8602 90	Other rail locomotives (excl. those powered from an external source of electricity or by accumulators and diesel-electric locomotives)
8604 00	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)

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8606 92	Other railway or tramway goods vans and wagons, not self-propelled - Open, with non-removable sides of a height exceeding 60 cm
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)
8704 10	Dumpers designed for off-highway use
8704 22	Other motor vehicles for the transport of goods - of a gross vehicle weight exceeding 5 tonnes but not exceeding 20 tonnes
8704 32	Other motor vehicles for the transport of goods - of a gross vehicle weight exceeding 5 tonnes
8705 20	Mobile drilling derricks
8705 30	Fire fighting vehicles
8705 90	Special purpose motor vehicles, other than those principally designed for the transport of persons or goods (for example, breakdown lorries, crane lorries, fire fighting vehicles, concrete-mixer lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units) - Other
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
9010 10	Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper
9015 40	Photogrammetrical surveying instruments and appliances
9015 80	Other instruments and appliances
9015 90	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses; rangefinders - Parts and acessories

9029 10	Revolution counters, production counters, taximeters, milometers, pedometers and the like
9031 20	Test benches
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
9406 10	Prefabricated buildings of wood
9406 90	Prefabricated buildings, whether or not complete or already assembled - Other
9606 30	Button moulds and other parts of buttons; button blanks
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

Ny del C av vedlegg XXIII skal lyde:

CN code	Description
7208	flat-rolled products of iron or non-alloy steel, of a width >= 600 mm, hot-rolled, not clad, plated or coated
7209	flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, cold-rolled "cold-reduced", not clad, plated or coated
7210 11	flat-rolled products of iron or non-alloy steel, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced", tinned, of a thickness of $\geq 0.5$ mm
7210 12	flat-rolled products of iron or non-alloy steel, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced", tinned, of a thickness of $< 0.5$ mm
7210 20	flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced", plated or coated with lead, incl. terne-plate
7210 30	flat-rolled products of iron or non-alloy steel, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced", electrolytically plated or coated with zinc
7210 41	flat-rolled products of iron or non-alloy steel, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced", corrugated, plated or coated with zinc (excl. electrolytically plated or coated with zinc)

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7210 49	flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced", not corrugated, plated or coated with zinc (excl. electrolytically plated or coated with zinc)
7210 50	flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced", plated or coated with chromium oxides or with chromium and chromium oxides
7210 61	flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced", plated or coated with aluminium-zinc alloys
7210 69	flat-rolled products of iron or non-alloy steel, of a width of $\geq 600$ mm, hot-rolled or cold-rolled "cold-reduced", plated or coated with aluminium (excl. products plated or coated with aluminium-zinc alloys)
7210 70	flat products of iron or non-alloy steel, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced", painted, varnished or coated with plastics
7211 19	flat-rolled products of iron or non-alloy steel, of a width < 600 mm, simply hot- rolled, not clad, plated or coated, of a thickness < 4,75 mm (excl. "wide flats")
7211 23	flat-rolled products of iron or non-alloy steel, of a width of $< 600$ mm, simply cold-rolled "cold-reduced", not clad, plated or coated, containing by weight $< 0.25$ % of carbon
7211 90	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced" and further worked, but not clad, plated or coated
7212 20	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", electrolytically plated or coated with zinc
7212 30	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", tinned (excl. electrolytically plated or coated with zinc)
7212 40	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", painted, varnished or coated with plastics
7212 50	flat-rolled products of iron or non-alloy steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", plated or coated (excl. tinned, plated or coated with zinc, painted, varnished or coated with plastics)
7219	flat-rolled products of stainless steel, of a width of >= 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"
7225 11	flat-rolled products of silicon-electrical steel, of a width of >= 600 mm, grain- oriented
7225 40	flat-rolled products of alloy steel other than stainless, of a width of $\geq 600$ mm, not further worked than hot-rolled, not in coils (excl. products of silicon-electrical steel)

<ul> <li>7225 50 flat-rolled products of alloy steel other than stainless, of a width of &gt;= 600 mm, not further worked than cold-rolled "cold-reduced" (excl. products of silicon-electrical steel)</li> <li>7225 91 flat-rolled products of alloy steel other than stainless, of a width of &gt;= 600 mm, not-rolled or cold-rolled "cold-reduced" and electrolytically plated or coated with zine (excl. products of silicon-electrical steel)</li> <li>7225 92 flat-rolled products of alloy steel other than stainless, of a width of &gt;= 600 mm, hot-rolled or cold-rolled "cold-reduced" and plated or coated with zine (excl. electrolytically plated or coated and products of silicon-electrical steel)</li> <li>7226 11 flat-rolled products of silicon-electrical steel, of a width of &lt; 600 mm, hot-rolled or cold-rolled "cold-reduced", grain-oriented</li> <li>7226 19 flat-rolled products of silicon-electrical steel, of a width of &lt; 600 mm, hot-rolled or cold-rolled "cold-reduced", not grain-oriented</li> <li>7226 20 flat-rolled products of silicon-electrical steel, of a width of &lt; 600 mm, hot-rolled or cold-rolled "cold-reduced" (excl. products of high-speed steel, of a width of &lt; 600 mm, hot-rolled or cold-rolled "cold-reduced" (excl. products of high-speed steel or silicon-electrical steel)</li> <li>7226 92 flat-rolled products of alloy steel other than stainless, of a width of &lt; 600 mm, not further worked than cold-rolled "cold-reduced" (excl. products of high-speed steel or silicon-electrical steel)</li> <li>7226 99 flat-rolled products of slloy steel other than stainless, of a width of &lt; 600 mm, hot-rolled or cold-rolled "cold-reduced" and further worked (excl. products of high-speed steel or silicon-electrical steel)</li> <li>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, roofs, angles, shapes, sections, tubes and t</li></ul>		
hot-rolled or cold-rolled "cold-reduced" and electrolytically plated or coated with zinc (excl. products of silicon-electrical steel)         7225 92       flat-rolled products of alloy steel other than stainless, of a width of >= 600 mm, hot-rolled or cold-rolled "cold-reduced" and products of silicon-electrical steel)         7226 11       flat-rolled products of silicon-electrical steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", grain-oriented	7225 50	further worked than cold-rolled "cold-reduced" (excl. products of silicon-electrical
hot-rolled or cold-rolled "cold-reduced" and plated or coated with zinc (excl. electrolytically plated or coated and products of silicon-electrical steel)         7226 11       flat-rolled products of silicon-electrical steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", grain-oriented	7225 91	hot-rolled or cold-rolled "cold-reduced" and electrolytically plated or coated with
cold-rolled "cold-reduced", grain-oriented         7226 19       flat-rolled products of silicon-electrical steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", not grain-oriented	7225 92	hot-rolled or cold-rolled "cold-reduced" and plated or coated with zinc (excl.
cold-rolled "cold-reduced", not grain-oriented7226 20flat-rolled products of high-speed steel, of a width of <= 600 mm, hot-rolled or cold-rolled "cold-reduced"7226 92flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, not further worked than cold-rolled "cold-reduced" (excl. products of high-speed steel or silicon-electrical steel)7226 99flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, hot- rolled or cold-rolled "cold-reduced" and further worked (excl. products of high- speed steel or silicon-electrical steel)7308structures 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 94067310tanks, 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.s7311containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)7610structures 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 s	7226 11	
cold-rolled "cold-reduced"7226 92flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, not further worked than cold-rolled "cold-reduced" (excl. products of high-speed steel or silicon-electrical steel)7226 99flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, hot- rolled or cold-rolled "cold-reduced" and further worked (excl. products of high- speed steel or silicon-electrical steel)7308structures 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 94067310tanks, 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.s7311containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)7610structures 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	7226 19	1
further worked than cold-rolled "cold-reduced" (excl. products of high-speed steel or silicon-electrical steel)7226 99flat-rolled products of alloy steel other than stainless, of a width of < 600 mm, hot- rolled or cold-rolled "cold-reduced" and further worked (excl. products of high- speed steel or silicon-electrical steel)7308structures 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 94067310tanks, 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.s7311containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)7610structures 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	7226 20	
rolled or cold-rolled "cold-reduced" and further worked (excl. products of high- speed steel or silicon-electrical steel)7308structures 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 94067310tanks, 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.s7311containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)7610structures 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	7226 92	further worked than cold-rolled "cold-reduced" (excl. products of high-speed steel
<ul> <li>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</li> <li>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 &lt;= 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated, n.e.s</li> <li>7311 containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)</li> <li>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</li> </ul>	7226 99	rolled or cold-rolled "cold-reduced" and further worked (excl. products of high-
<ul> <li>material "other than compressed or liquefied gas", of a capacity of &lt;= 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat-insulated, n.e.s</li> <li>7311 containers of iron or steel, for compressed or liquefied gas (excl. containers specifically constructed or equipped for one or more types of transport)</li> <li>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</li> </ul>	7308	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
<ul> <li>specifically constructed or equipped for one or more types of transport)</li> <li>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</li> </ul>	7310	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-
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	7311	
7612 10 collapsible tubular containers, of aluminium	7610	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
	7612 10	collapsible tubular containers, of aluminium

8405 10	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 (excl. coke ovens, electrolytic process gas generators and carbide lamps)
8406 81	steam and other vapour turbines, of an output > 40 mw (excl. those for marine propulsion)
8406 82	steam and other vapour turbines, of an output <= 40 mw (excl. those for marine propulsion)
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 90	parts of hydraulic turbines and water wheels incl. regulators
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
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
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.
8421 11	centrifugal cream separators
8421 23	oil or petrol-filters for internal combustion engines
8421 29	machinery and apparatus for filtering or purifying liquids (excl. such machinery and apparatus for water and other beverages, oil or petrol-filters for internal combustion engines and artificial kidneys)
8421 31	intake air filters for internal combustion engines
8421 39	machinery and apparatus for filtering or purifying gases (excl. isotope separators and intake air filters for internal combustion engines)
8421 99	parts of machinery and apparatus for filtering or purifying liquids or gases, n.e.s.
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 31	winches and capstans powered by electric motor
8426 11	overhead travelling cranes on fixed support
8426 19	overhead travelling cranes, transporter cranes, gantry cranes, bridge cranes and mobile lifting frames (excl. overhead travelling cranes on fixed support, mobile lifting frames on tyres, straddle carriers and portal or pedestal jib cranes)
8426 20	tower cranes
8426 30	portal or pedestal jib cranes
8426 41	mobile cranes and works trucks fitted with a crane, self-propelled, on tyres (excl. wheel-mounted cranes, mobile lifting frames on tyres and straddle carriers)
8426 49	mobile cranes and works trucks fitted with a crane, self-propelled (excl. those on tyres and straddle carriers)
8426 91	cranes designed for mounting on road vehicles
8427	fork-lift trucks; other works trucks fitted with lifting or handling equipment (excl. straddle carriers and works trucks fitted with a crane)
8428 31	continuous-action elevators and conveyors for goods or materials, for underground use (excl. pneumatic elevators and conveyors)

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
8429 11	self-propelled bulldozers and angledozers, track laying
8429 20	self-propelled graders and levellers
8429 30	self-propelled scrapers
8429 40	self-propelled tamping machines and roadrollers
8429 51	self-propelled front-end shovel loaders
8429 52	self-propelled mechanical shovels, excavators and shovel loaders, with a 360° revolving superstructure
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.
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)
8454 20	ingot moulds and ladles, of a kind used in metallurgy or in metal foundries
8454 90	parts of converters, ladles, ingot moulds and casting machines of a kind used in metallurgy or in metal foundries, n.e.s.
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)
8456 40	machine tools for working any material by removal of material, operated by plasma arc processes
8457 10	machining centres for working metal
8457 30	multi-station transfer machines for working metal
8458	lathes (including turning centres) for removing metal

8459 21	drilling machines for working metal, numerically controlled (excl. way-type unit head machines)
8459 31	boring-milling machines for metals, numerically controlled (excl. way-type unit head machines)
8459 41	boring machines for metals, numerically controlled (excl. way-type unit head machines and boring-milling machines)
8459 49	boring machines for metals, not numerically controlled (excl. way-type unit head machines and boring-milling machines)
8459 61	milling machines for metals, numerically controlled (excl. way-type unit head machines, boring-milling machines, knee-type milling machines and gear cutting 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)
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 96	splitting, slicing or paring machines, for working wood (excl. machining centres)
8466 20	work holders for machine tools
8466 93	parts and accessories for machine tools for working material by removing material of headings 8456 to 8461, n.e.s.
8466 94	parts and accessories for machine tools for working metal without removing material, n.e.s.
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
8474 31	concrete or mortar mixers (excl. those mounted on railway wagons or lorry chassis)
	blow-moulding machines for working rubber or plastics

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.
8481 30	check "non-return" valves for pipes, boiler shells, tanks, vats or the like
8482 10	ball bearings
8482 30	spherical roller bearings
8482 50	cylindrical roller bearings (excl. needle roller bearings)
8482 80	roller bearings, incl. combined ball-roller bearings (excl. ball bearings, tapered roller bearings, incl. cone and tapered roller assemblies, spherical roller bearings, needle and cylindrical roller bearings)
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
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 9 c 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 53	ac motors, multi-phase, of an output > 75 kw
8501 61	ac generators "alternators", of an output <= 75 kva
8502 11	generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output <= 75 kva
8502 12	generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output > 75 kva but <= 375 kva
8502 13	generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output > 375 kva
8503 00	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)
8505 90	electromagnets and electromagnetic lifting heads, and their parts (excl. magnets for medical use); electromagnetic or permanent magnet chucks, clamps and similar holding devices and their parts, n.e.s.
8506 60	air-zinc cells and batteries (excl. spent)
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)
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.
8514 11	hot isostatic presses
8514 19 80	resistance heated industrial or laboratory furnaces and ovens (excluding bakery and biscuit ovens and hot isostatic presses)
8514 20	furnaces and ovens functioning by induction or dielectric loss
8514 90	parts of electric industrial or laboratory furnaces and ovens, incl. of those functioning by induction or dielectric loss, and of industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss, n.e.s. (other than for the manufacture of semiconductor devices on semiconductor wafers)
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)
8525 81	High-speed television cameras, digital cameras and video camera recorders as specified in subheading note 1 to chapter 85.
8525 82	Radiation-hardened or radiation-tolerant television cameras, digital cameras and video camera recorders as specified in subheading note 2 to chapter 85
8525 83	Night vision television cameras, digital cameras and video camera recorders as specified in subheading note 3 to chapter 85
8526 10	radar 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)
8530 10	electrical signalling, safety or traffic control equipment for railways or tramways (excl. mechanical or electromechanical equipment of heading 8608)
8530 80	electrical signalling, safety or traffic control equipment (excl. that for railways or tramways and mechanical or electromechanical equipment of heading 8608)
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 90	parts of electrical resistors, incl. rheostats and potentiometers, n.e.s.
8535 10	fuses for a voltage $> 1\ 000\ v$
8535 21	automatic circuit breakers for a voltage $> 1\ 000\ v$ but $< 72,5\ kv$
8535 29	automatic circuit breakers for a voltage >= 72,5 kv
8535 40	lightning arresters, voltage limiters and surge suppressors, for a voltage $> 1\ 000\ v$
8538 10	boards, panels, consoles, desks, cabinets and other bases for the goods of heading 8537, not equipped with their apparatus
8538 90	parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537, n.e.s. (excl. boards, panels, consoles, desks, cabinets and other bases for the goods of heading 8537, not equipped with their apparatus)
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 51	Light-emitting diode (LED) modules
8539 52	Light-emitting diode (LED) lamps
8540 71	magnetrons
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 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
8544 49	electric conductors, for a voltage <= 1 000 v, insulated, not fitted with connectors, n.e.s.
8544 60	electric conductors, for a voltage $> 1000$ 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 10	insulating fittings for electrical purposes, of ceramics
8547 20	insulating fittings for electrical purposes, of plastics
8549	electrical and electronic waste and scrap
8703 10	vehicles for the transport of $< 10$ persons on snow; golf cars and similar vehicles
8704 23	motor vehicles for the transport of goods, with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of a gross vehicle weight > 20 t (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705 )
8705 10	crane lorries (excl. breakdown lorries)
8705 40	concrete-mixer lorries
8716 39	trailers and semi-trailers for the transport of goods, not designed for running on rails (excl. self-loading or self-unloading trailers and semi-trailers for agricultural purposes and tanker trailers and tanker semi-trailers)
8716 90	parts of trailers and semi-trailers and other vehicles not mechanically propelled, n.e.s.
9001 10	optical fibres, optical fibre bundles and cables (excl. made up of individually sheathed fibres of heading 8544 )
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)
9014	direction finding compasses; other navigational instruments and appliances (excl. radio navigational equipment); parts thereof
9015 10	rangefinders
9015 20	theodolites and tachymeters "tacheometers"
9024 80	machines and appliances for testing the mechanical properties of materials (excl. metals)

9025 90	parts and accessories for hydrometers, areometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, n.e.s.
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 20	speed indicators and tachometers, stroboscopes
9029 90	parts and accessories for revolution counters, production counters, taximeters, milometers, pedometers and the like, speed indicators and tachometers, and stroboscopes, n.e.s.
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.
Ex98	complete industrial plants, except plants for the production of food and drinks, pharmaceuticals, medicines and medical devices'.

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Forskriften trer i kraft straks.

Endringene i forskriftens §8 trer i kraft 3. juni 2023.

Endringene i forskriftens §8c trer i kraft 4. juni 2023.