

# NRRC Specific Regulations

## National Nuclear Regulatory Controlled Items (Annex)

**NRRC-R-18-SR01-Annex**  
**Rev.02**



هيئة الرقابة النووية والإشعاعية  
Nuclear and Radiological Regulatory Commission

**2025**

---

## **Specific Regulation**

National Nuclear Regulatory Controlled Items

**2025**

**NRRC-R-18-SR01-Annex Rev.02**





---

## Preamble

The herein annex is an official translation of the annex for the HS codes of the items described in the National Nuclear Regulatory Controlled Items (NRRC-R-18-SR01 Rev.01) issued by NRRC and has been approved by the NRRC's CEO resolution No. (1607), dated 9/7/1445 H, and all conflicts shall be resolved following the Arabic transcript. The codes in this annex were set forth in accordance with the Kingdom's national laws and internal obligations, which includes the International Convention on the Harmonized Commodity Description and Coding System – ratified by the Kingdom by Royal Decree No. (M/56), dated 15 June 1987.

The above mentioned National Nuclear Regulatory Controlled Items (NRRC-R-18-SR01 Rev.01) describes – in details – the technical specifications for the items listed herein. This annex (NRRC-R-18-SR01-Annex Rev.02) is issued by NRRC and approved by the NRRC's CEO resolution No. (0311536), dated 24/11/1446 H (22/05/2025). This document shall repeal any previous revisions, and the Arabic version shall prevail over any discrepancies and conflicts.





ITEM	HS CODE	DESCRIPTION	INDEX
Natural uranium and its compounds	284410110000	- - - For medical diagnostic purposes	010100010000
	284410120000	- - - For pharmaceutical purposes	
	284410190000	- - - For other medical purposes	
	284410900000	- - - other	
uranium depleted in U-235 and its compounds	284430110000	- - - For other medical purposes	010100020000
	284430190000	- - - other	
	284430900000	- - - For medical diagnostic purposes	
Thorium and its compounds	284430110000	- - - For medical diagnostic purposes	010100030000
	284430190000	- - - For other medical purposes	
	284430900000	- - - other	
Plutonium and its compounds	284420110000	- - - For medical diagnostic purposes	010200010000
	284420190000	- - - For other medical purposes	
	284420900000	- - - other	
Uranium-233 and its compounds	284443110001	- - - Uranium-233 and its compounds for medical diagnostic purposes	010200020000
	284443190001	Uranium-233 and its compounds for other medical purposes	
	284443900001	- - - Uranium-233 and its compounds for other purposes	
Uranium enriched in the isotopes 235 or 233 and its compounds	284420110000	- - - For medical diagnostic purposes	010200030000 010200040000
	284420190000	- - - For other medical purposes	
	284420900000	- - - other	
Nuclear reactors' non-irradiated fuel elements	284450000000	-spent (irradiated) fuel elements (cartridges) of nuclear reactors	010200050000
Nuclear reactors' irradiated fuel elements	840130000000	- fuel elements (cartridges), non-irradiated	
Uranium ores	261210000001	Autunite ore (hydrated calcium uranyl phosphate)	010200060100
	261210000002	Brannerite ore (uranium titanates)	
	261210000003	Carnotite ore (hydrous vanadate of uranium and potassium)	
	261210000004	Coffinite ore (uranium silicate)	
	261210000005	Davidite ore (uranium and iron titanates)	
	261210000006	Parsonsite ore (hydrous phosphate of uranium and lead)	
	261210000008	Torbernite ore (chalcilite) (hydrous phosphate of uranium and copper)	
	261210000009	Tyuyamunite ore (hydrous vanadate of uranium and calcium)	



ITEM	HS CODE	DESCRIPTION	INDEX
Uranium ores	261210000010	Uranophane ore (calcium and uranium silicate )	010200060100
	261210000011	Uranothorite ore (uranium and thorium oxide)	
	261210000012	Autunite ore concentrates (hydrous phosphate of uranium and calcium)	
	261210000013	Brannerite ore concentrates (uranium titanates)	
	261210000014	Carnotite ore concentrates	
	261210000015	Coffinite ore concentrates (uranium silicate)	
	261210000016	Davidite ore concentrates (titanates of uranium and iron)	
	261210000017	Parsonsite ore concentrates (hydrous phosphate of uranium and lead)	
	261210000018	Pitchblende and uraninite ore concentrates (salts of uranium oxides)	
	261210000019	Torbernite ore concentrates (chalcolite) (hydrous phosphate of uranium and copper)	
	261210000020	Tyuyamunite ore concentrates (hydrous vanadate of uranium and calcium)	
	261210000021	Uranophane ore concentrates (calcium and uranium silicate)	
	261210000022	Uranothorite ore concentrates (uranium and thorium oxide )	
	261210009999	other	
Thorium ores	261220000001	Monazite ore (thorium phosphate and rare earth elements)	010200060200
	261220000002	Thorite ore (hydrous thorium silicate)	
	261220000003	Monazite ore concentrates (thorium phosphate and rare earth elements)	
	261220000004	Thorite ore concentrates (hydrous thorium silicate)	
	261220009999	other	
Radioactive materials	284441110000	- - - - For medical diagnostic purposes	020100010000 020100020000 020100030000
	284441190000	- - - - For other medical purposes	
	284441900000	- - - other	
	284442110000	- - - - For medical diagnostic purposes	
	284442190000	- - - - For other medical purposes	
	284442900000	- - - other	
	284443119999	- - - - other radioactive materials for medical diagnostic purposes	
	284443199999	- - - - other radioactive materials for other medical purposes	

ITEM	HS CODE	DESCRIPTION	INDEX
Radioactive materials	284443909999	Other radioactive materials	020100010000 020100020000 020100030000
	284444110000	- - - For medical diagnostic purposes	
	284444190000	- - - For other medical purposes	
	284444909999	Other radioactive residues	
Radiation generators	854310000001	Pulsed electron accelerators (with peak energy of 500 keV or more)	020200000000
	902212000000	-- computed tomography apparatus	
	902213000000	- - other, for dental uses	
	902214000001	--- A device for diagnosis, treatment and screening of brain vessels and nerves by x - ray	
	902214000002	--- X-ray diagnosis and examination of tumors machine	
	902214000003	X-ray diagnostic device, which depicts heart vessels	
	902214000004	--- other x-ray machines for medical or surgical usage	
	902214000005	Other x-ray machines for veterinary usage	
	902219100000	- - - for inspection of baggage and luggage	
Radiation generators	902219900001	X-ray machines for inspection of containers and vehicles	020200000000
	902219900002	X-ray machines for people (eg used in airports, etc.)	
	902219900003	Flash X-ray generators (with peak energy of 0.5 MeV but less than 25 MeV)	
	902219900004	Ionnizing radiation generator systems (Neutrons), including tubes (triggering tritium-deuterium reactions via electrostatic vacuum acceleration)	
	902219909999	Other x-ray machines for other uses	
	902221000001	Alpha rays medical or surgical devices	
	902221000002	Alpha rays dental devices	
	902221000003	Alpha rays dental devices	
	902221000004	Beta-rays medical or surgical devices	
	902221000005	Beta-rays dental devices	
	902221000006	Beta-rays veterinary devices	
	902221000007	Gamma rays medical or surgical devices	
	902221000008	Gamma rays dental devices	
	902221000009	Gamma rays veterinary devices	
	902229000000	-- for other uses	
	902230000000	- x-ray tubes	





ITEM	HS CODE	DESCRIPTION	INDEX
Radiation generators	902290000001	Parts and accessories of x-ray luggage inspection devices	020200000000
	902290009999	other	
Complete nuclear reactors	840110000000	- Nuclear reactors	030101000000
Nuclear reactor vessels	840140000001	Metal vessels or major shop-fabricated parts therefor to contain the core of a nuclear reactor	030102000000
Nuclear reactors fuel charging and discharging machines	842619000001	Nuclear reactor fuel charging and discharging manipulative machines	030103000000
	842890400000	- - - Other nuclear reactor fuel charging and discharging machines	
Nuclear reactor control rods and equipment	840140000002	Nuclear reactor control rods and equipment	030104000000
Nuclear reactor pressure tubes	840140000003	Nuclear reactor pressure tubes to contain both fuel elements and the primary coolant in a reactor	030105000000
Nuclear fuel cladding	810999000001	Zirconium metal tubes (containing less than 1 part hafnium to 500 parts zirconium by weight) for use as fuel cladding in a reactor	030106000000
Primary coolant pumps or circulators	841381300000	- - - pumps for nuclear uses	030107000000
	841382000001	Circulators for nuclear uses	
Nuclear reactor internals	840140000004	Nuclear reactor primary internal components	030108000000
	840140009999	Other nuclear reactor internal components	
Heat exchangers	841950000001	Heat exchangers especially designed or prepared for use in the primary or intermediate coolant circuit of a nuclear reactor	030109000000
	841950000002	Heat exchangers by steam generators especially designed or prepared for the primary or intermediate coolant circuit of a nuclear reactor	030109000100 030109000200
Neutron detectors	903010000003	Detectors for determining neutron flux levels within the core of a reactor and for reprocessing irradiated nuclear fuel elements	030110000000
External thermal shields	840140000005	Thermal shields for containment vessel protection in nuclear reactors	030111000000
Deuterium and heavy water	284510000000	- heavy water (deuterium oxide)	030200020000
	284590000001	-heavy hydrogen (deuterium)	
	284590009999	other	
Nuclear grade graphite	380110100000	Nuclear grade graphite	030200030000
Irradiated fuel element decladding equipment and chop ping machines	845611000001	Automated equipment operated by laser to remove and chop the cladding from irradiated nuclear fuel	030300010000

ITEM	HS CODE	DESCRIPTION	INDEX
Irradiated fuel element decladding equipment and chopping machines	84619000001	Automated equipment to remove and chop the cladding from irradiated nuclear fuel	030300010000
Dissolvers	847989990011	mechanical devices especially designed for irradiated nuclear fuel dissolution and capable of withstanding hot highly corrosive liquid (dissolver vessels or dissolvers)	030300020000
Solvent extractors and solvent extraction equipment	847989990012	solvent extractors devices and components used in a plant for the reprocessing of irradiated fuel	030300030000
Chemical holding or storage vessels	841990000003	holding or storage vessels for use in a plant for the reprocessing of irradiated fuel (having the features for control of nuclear criticality)	030300040000
Neutron measurement systems for process control	903010000003	Detectors for determining neutron flux levels within the core of a reactor and for reprocessing irradiated nuclear fuel elements	30300050000
Plants for the fabrication of nuclear reactor fuel elements, and equipment especially designed or prepared therefor	847989990013	Equipment especially designed or prepared for the fabrication of nuclear fuel elements	030400000000
Gas centrifuges and assemblies and components especially designed or prepared for use in gas centrifuges	840120100000	machinery and apparatus for separation of natural uranium, depleted uranium or fissile materials, and parts thereof	030500010000
Gas centrifuges rotating components	840120100001	Gas centrifuges' rotating components used for isotopic separation of natural uranium, depleted uranium or special fissionable material	030500010100 030500010101 030500010102 030500010103 030500010104 030500010105
Gas centrifuges static components	840120100002	Gas centrifuges' static components used for isotopic separation of natural uranium, depleted uranium or special fissionable material	030500010200 030500010201
	848280000001	Bearings/dampers (ball bearing) or a pivot/cup assembly bearings mounted on a damper use for gas centrifuges used in gas centrifuge for uranium enrichment	030500010202 030500010203 030500010204 030500010205
	848280000002	magnetically suspended bearings/dampers (ball bearing) use for gas centrifuges used in gas centrifuge for uranium enrichment	030500010206



ITEM	HS CODE	DESCRIPTION	INDEX
Especially designed or prepared auxiliary systems, equipment and components for gas centrifuge enrichment plants	840120210000	- - -Especially designed or prepared auxiliary systems, equipment and components in gas centrifuge enrichment plants:	030500020000
Feed systems/product and tails withdrawal system	840120210001	Feed systems/products and tails withdrawal systems for isotopic separation thereof in gas centrifuge enrichment plants	030500020100
Machine header piping systems	840120210002	Machine header piping systems for isotopic separation thereof in enrichment plants	030500020200 030500040200 030500050800
Special shut-off and control valves	840120210003	Special shut-off and control valves for isotopic separation thereof in enrichment plants	030500020300 030500020301 030500020302 030500040400 030500051000
UF <sub>6</sub> mass spectrometers/ion sources	840120210004	UF <sub>6</sub> mass spectrometers/ion sources used in enrichment plants	030500020400 030500040500 030500051100 030500071000
Frequency changers	850440900004	Frequency changers having frequency output of 600 Hz or greater used to extract the product and tails UF <sub>6</sub> from the centrifuges	030500020500
Especially designed or prepared assemblies and components for use in gaseous diffusion enrichment	840120220000	- - -assemblies and components for use in gaseous diffusion enrichment plants:	030500030000
Gaseous diffusion barriers and barrier materials	842139000003	Thin, porous filters, with a pore size of 10 - 100 nm, a thickness of 5 mm or less made of homogeneous and UF <sub>6</sub> -resistance materials	030500030100 030500030101 030500030102
Diffuser housings	840120220001	hermetically sealed vessels for containing the gaseous diffusion barrier, made of or protected by UF <sub>6</sub> -resistant materials	030500030200
Compressors and gas blowers	841459300001	Especially designed or prepared gas blowers for nuclear uses	030500030300 030500050300
	841480900001	Especially designed or prepared compressors for nuclear uses	030500070700 030600020000

ITEM	HS CODE	DESCRIPTION	INDEX
Rotary shaft seals	848420000001	vacuum seals especially designed or prepared for reliable seal against in-leaking of UF <sub>6</sub>	030500030400 030500050400 030500070800
Heat exchangers for cooling UF <sub>6</sub>	841950000003	heat exchangers intended for a leakage pressure change rate of less than 10 Pa/h under a pressure difference of 100 kPa for use in gaseous diffusion enrichment	030500030500
Especially designed or prepared auxiliary systems, equipment and components for use in gaseous diffusion enrichment	840120230000	auxiliary systems, equipment and components for use in gaseous diffusion enrichment	030500040000
Feed systems/product and tails withdrawal systems	840120230001	Feed systems/product and tails withdrawal system used in gaseous diffusion enrichment plants	030500040100
Vacuum systems	840120230002	vacuum systems, containing vacuum manifolds, vacuum headers and vacuum pumps for use in gaseous diffusion enrichment	030500040300 030500040301 030500040302
Especially designed or prepared systems, equipment, and components for use in aerodynamic enrichment plants	840120240000	systems, equipment, and components for use in aerodynamic enrichment plants	030500050000
Separation nozzles	840120240005	separation nozzles consist of slit-shaped, curved channels having a radius of curvature less than 1 mm	030500050100
Vortex tubes	840120240006	vortex tubes with one or more tangential inlets.	030500050200
Heat exchangers for gas cooling	841950000004	heat exchangers made of or protected by materials resistant to corrosion by UF <sub>6</sub> for use in aerodynamic enrichment plants	030500050500
Separation element housings	840120240004	separation element housing for containing vortex tubes or separation nozzles for use in aerodynamic enrichment plants	030500050600
Feed systems/product and tails withdrawal systems	840120240001	Feed systems/product and tails withdrawal system used in aerodynamic enrichment plants	030500050700
Vacuum systems and pumps	840120240002	vacuum systems and pumps for use in aerodynamic enrichment plants	030500050900 030500050901 030500050902



ITEM	HS CODE	DESCRIPTION	INDEX
UF <sub>6</sub> /carrier gas separation systems	840120240003	Especially prepared process systems for separating UF <sub>6</sub> from carrier gas for use in aerodynamic enrichment plants	030500051200
Especially designed or prepared systems, equipment, and components for use in chemical exchange or ion exchange enrichment plants	840120280000	systems, equipment, and components for use in chemical exchange or ion exchange enrichment plants	030500060000
Liquid-liquid exchange columns (chemical exchange)	840120280005	Liquid-liquid exchange columns (chemical exchange) for uranium enrichment with stage residence time of 30 s or less	030500060100
Liquid-liquid centrifugal contactors (chemical exchange)	840120280006	Liquid-liquid centrifugal contactors (chemical exchange) use rotation for uranium enrichment	030500060200
Uranium reduction systems and equipment (chemical exchange)	840120280003	chemical or electrochemical reduction systems for regeneration of the chemical reducing agent for use in enrichment cascades for uranium enrichment	030500060300 030500060301 030500060302
Feed preparation systems (chemical exchange)	840120280002	Systems for producing high-purity uranium chloride for use in isotopic separation plants (chemical exchange)	030500060400
Uranium oxidation systems (chemical exchange)	840120280004	Uranium oxidation systems and return to cascade for isotopic separation (chemical exchange)	030500060500
Fast-reacting ion exchange resins/adsorbents (ion exchange)	391400200000	- - - Fast-reacting ion exchange resins or adsorbents especially designed or prepared for uranium enrichment	030500060600
Ion exchange columns (ion exchange)	840120280007	Ion exchange columns (ion exchange) have greater than 1000 mm in diameter for containing and supporting packed beds of ion exchange resin/adsorbent for use in uranium enrichment	030500060700
Ion exchange reflux systems (ion exchange)	840120280003	chemical or electrochemical reduction systems for regeneration of the chemical reducing agent for use in enrichment cascades for uranium enrichment	030500060800 030500060801 030500060802

ITEM	HS CODE	DESCRIPTION	INDEX
Especially designed or prepared systems, equipment, and components for use in laser-based enrichment plants	840120250000	- - -Especially designed or prepared systems, equipment, and components for use in laser-based enrichment plants:	030500070000
Uranium vaporization systems (atomic vapor based methods)	840120250001	Especially designed or prepared uranium metal atomic vapor based methods for use in enrichment	030500070100
Liquid or vapor uranium metal handling systems and components (atomic vapor based methods)	840120250002	systems and components thereof especially designed or prepared for handling molten uranium, molten uranium alloys or uranium metal vapour	030500070200
Uranium metal product and tails collector assemblies (atomic vapor-based methods)	840120250003	product and tails collector assemblies for collecting uranium metal in liquid or solid form	030500070300
Separator module housings (atomic vapor-based methods)	840120250004	Cylindrical or rectangular vessels for containing the uranium metal vapor source, the electron beam gun, and the product and tails collectors.	030500070400
Supersonic expansion nozzles (molecular based methods)	840120250005	Supersonic expansion nozzles for cooling mixtures of $UF_6$ and carrier gas to 160 K (-123°C) or less	030500070500
Product or tails collectors (molecular based methods)	840120250006	Components or devices especially designed or prepared for collecting uranium product material or uranium tails material following illumination with laser light.	030500070600
Fluorination systems (molecular based methods)	840120250007	Fluorination systems $UF_5$ (solid) to $UF_6$ (gas).	030500070900
Feed systems/product and tails withdrawal systems (molecular based methods)	840120250008	Feed systems/product and tails withdrawal systems (molecular based methods) for use in laser enrichment plants	030500071100
$UF_6$ /carrier gas separation systems (molecular based methods)	840120250009	processing systems for separating $UF_6$ from carrier gas	030500071200
Laser systems	840120250010	Laser-based isotopic separation systems by atomic or molecular methods	030500071300



ITEM	HS CODE	DESCRIPTION	INDEX
Especially designed or prepared systems, equipment, and components for use in plasma separation enrichment plants	840120260000	- - -Especially designed or prepared systems, equipment, and components for use in plasma separation enrichment plants:	030500080000
Microwave power sources and antennae	840120260005	Microwave power sources for producing or accelerating ions for use in plasma separation enrichment plants	030500080100
Ion excitation coils	840120260004	Radio frequency ion excitation coils for frequencies of more than 100 kHz for use in plasma enrichment plants	030500080200
Uranium plasma generation systems	840120260001	systems for uranium plasma generation for use in plasma separation plants	030500080300
Uranium metal product and tails collector assemblies	840120260002	product and tails collector assemblies for uranium metal in solid form	030500080400
Separator module housings	840120260003	Cylindrical vessels especially designed or prepared for isotopic separation for use in plasma separation enrichment plants for containing the uranium plasma source	030500080500
Especially designed or prepared systems, equipment, and components for use in electromagnetic enrichment plants	840120270000	- - - -Especially designed or prepared systems, equipment, and components for use in electromagnetic enrichment plants:	030500090000
Electromagnetic isotope separators	840120270001	single or multiple uranium ion sources (capable of providing a total ion beam current of 50 mA or greater)	030500090100 030500090101 030500090102
	840120270002	Electromagnetic isotope separators for uranium isotopes separation for use in electromagnetic enrichment plants	030500090103 030500090104 040302050000
High voltage power supplies	850440190003	High-voltage supplies (capable of continuously producing potential difference not less than 20000 V with a current not less than 1 A) for use in electromagnetic enrichment plants	030500090200

ITEM	HS CODE	DESCRIPTION	INDEX
Magnet power supplies	850440190004	high power direct current magnet power supplies (capable of continuously output current 500 A or greater) for use in electromagnetic enrichment plants	030500090300
Plants for the production or concentration of heavy water, deuterium and deuterium compounds and equipment especially designed or prepared therefor	840120300000	- - -Especially designed or prepared equipment for use in production or concentration of heavy water, deuterium and deuterium compounds:	030600000000
Water-hydrogen sulphide exchange towers	840120300001	Water-hydrogen sulphide exchange towers for heavy water production, deuterium, and deuterium compounds	030600010000
Ammonia-hydrogen exchange towers	840120300002	Ammonia-hydrogen exchange towers for heavy water production, deuterium, and deuterium compounds	030600030000
Tower internals and stage sumps	840120300003	Tower internals and stage pumps especially designed or prepared for towers for heavy water production, deuterium, and deuterium compounds	030600040000
NH <sub>3</sub> crackers	840120300004	NH <sub>3</sub> crackers for heavy water production, deuterium, and deuterium compounds	030600050000
Infrared absorption analyzers	840120300011	Infrared absorption analyzers capable of on-line hydrogen/ deuterium ratio analysis for the production or concentration of heavy water, deuterium, and deuterium compounds	030600060000
Catalytic burners	840120300005	Catalytic burners for heavy water production, deuterium, and deuterium compounds	030600070000
Complete heavy water upgrade systems or columns therefor	840120300007	Complete systems or columns for the increase of deuterium concentration	030600080000
NH <sub>3</sub> synthesis converters or synthesis units	840120300008	NH <sub>3</sub> synthesis converters or synthesis units for heavy water production utilizing the ammonia-hydrogen exchange process.	030600090000
Plants and equipment especially designed or prepared for the conversion of uranium	847989950000	- - - Plants for the conversion of uranium and equipment especially designed or prepared therefor:	030700000000 030700010000





ITEM	HS CODE	DESCRIPTION	INDEX
Especially designed or prepared systems for the conversion of uranium ore concentrates to $UO_3$	847989950001	Especially designed or prepared systems for the conversion of uranium ore concentrates to $UO_3$	030700010100
Especially designed or prepared systems for the conversion of $UO_3$ to $UF_6$	847989950002	Especially designed or prepared systems for the conversion of $UO_3$ to $UF_6$	030700010200
Especially designed or prepared systems for the conversion of $UO_3$ to $UO_2$	847989950003	Especially designed or prepared systems for the conversion of $UO_3$ to $UO_2$	030700010300
Especially designed or prepared systems for the conversion of $UO_2$ to $UF_4$	847989950004	Especially designed or prepared systems for the conversion of $UO_2$ to $UF_4$	030700010400
Especially designed or prepared systems for the conversion of $UF_4$ to $UF_6$	847989950005	Especially designed or prepared systems for the conversion of $UF_4$ to $UF_6$	030700010500
Especially designed or prepared systems for the conversion of $UF_4$ to uranium metal	847989950006	Especially designed or prepared systems for the conversion of $UF_4$ to uranium metal	030700010600
Especially designed or prepared systems for the conversion of $UF_6$ to $UO_2$	847989950007	Especially designed or prepared systems for the conversion of $UF_6$ to $UO_2$	030700010700
Especially designed or prepared systems for the conversion of $UF_6$ to $UF_4$	847989950008	Especially designed or prepared systems for the conversion of $UF_6$ to $UF_4$	030700010800
Especially designed or prepared systems for the conversion of $UO_2$ to $UCl_4$	847989950009	Especially designed or prepared systems for the conversion of $UO_2$ to $UCl_4$	030700010900
Especially designed or prepared plants and equipment for the conversion of plutonium	847989960000	- - -Plants for the conversion of plutonium and equipment especially designed or prepared therefor:	030700000000 030700020000
Especially designed or prepared systems for the conversion of plutonium nitrate to oxide	847989960001	Especially designed or prepared systems for the conversion of plutonium nitrate to oxide	030700020100
Especially designed or prepared systems for plutonium metal production	847989960002	Especially designed or prepared systems for plutonium metal production	030700020200

ITEM	HS CODE	DESCRIPTION	INDEX
High-density radiation shielding windows (lead glass or other) and specially designed frames	702000900001	High-density radiation shielding windows and specially designed frames	040101010000
Radiation-hardened TV cameras, or lenses therefor, specially designed or rated as radiation hardened.	852582300000	- - - Radiation-hardened or radiation-tolerant television cameras for security surveillance only	040101020000
	900219000001	Radiation-hardened TV cameras lenses specially designed or rated as radiation hardened	
	852582900000	- - - Other radiation-hardened or radiation-tolerant cameras	
Robots, end-effectors and control units	842870000001	Industrial robots or end-effectors and specially designed control units (capable of handling high explosives or rated as radiation hardened)	040101030000
			040101030100
			040101030101
			040101030102
			040101030200
Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells	842890500000	Remote manipulators that can be used to in radiochemical separation or hot cells (capability of penetrating 0.6 m or more of hot cell wall)	040101040000
Flow-forming machines, spin-forming machines capable of flow-forming functions, and mandrels	846219000001	Flow-forming machines and spin-forming machines (having three or more rollers)	040102010000
			040102010100
Machine tools, as follows, and any combination thereof, for removing or cutting metals, ceramics, or composites, can be equipped with electronic devices for simultaneous con- touring control in two or more axes	845630000001	Non-wire type electrical discharge machines that have two or more contouring rotary axes	040102020000
	845811000001	Horizontal turning machine tools with positioning accuracies better than 6 µm	040102020100
	845891000001	Other turning machine tools with positioning accuracies better than 6 µm	040102020200
	846029000001	Other grinding machine tools with positioning accuracies better than 4 µm	040102020202
	845931000001	Milling machine tools with positioning accuracies better than 6 µm	040102020203
	845951000001	Knee-type milling machine tools with positioning accuracies better than 6 µm	040102020300
			040102020301
	846012000001	Flat-surface grinding machine tools with positioning accuracies better than 4 µm	040102020302



ITEM	HS CODE	DESCRIPTION	INDEX
Dimensional inspection machines, instruments, or systems	903149200000	- - -Measuring instruments for dimensional inspection computer controlled or numerically controlled having only two axes and having a maximum permissible error of length measurement along any axis (one dimensional)	040102030000 040102030100 040102030101 040102030102 040102030200 040102030201 040102030202 040102030300 040102030400 040102030500
	903180900001	Linear displacement measuring instruments containing non-contact type measuring systems (with a resolution equal to or better than 0.2 $\mu$ m)	
	903180900002	Linear displacement measuring instruments for linear variable differential transformer systems with an operating range up to 5 mm	
	903149300000	- - -Measuring systems containing a laser (with a resolution over their full scale of 0.1 $\mu$ m or better and capable of maintaining for at least 12 h)	
	903180900003	Angular displacement measuring systems for angular displacement having an angular position deviation equal to or less than 0.00025°.	
	903180900004	Measuring systems for results of measuring simultaneous linear-angular inspection for semi shells systems (having measurement uncertainty along any linear axis equal to or less than 3.5 $\mu$ m per 5 mm and angular position deviation equal to or less than 0.02°)	
Controlled atmosphere (vacuum or inert gas) induction furnaces, and power supplies	850440190005	Power supplies, with a specified output power of 5 kw or more, specially designed for induction furnaces controlled atmosphere (vacuum or inert gas)	040102040000 040102040100 040102040200
	851420000003	Induction furnaces capable of operation at temperatures above 1123 k (850 °C), equipped with a 600 mm (or less) diameter induction coils. Designed for power inputs of 5 kw or more	

ITEM	HS CODE	DESCRIPTION	INDEX
Isostatic presses and related equipment	85141100001	Isostatic presses (capable of achieving a maximum working pressure of 69 MPa or greater, and a chamber cavity with an inside diameter in excess of 152 mm.)	040102050000 040102050100 040102050200
	84798300001	Cold isostatic presses (capable of achieving a maximum working pressure of 69 MPa or greater, and a chamber cavity with an inside diameter in excess of 152 mm.)	
	84799000002	Dies, molds, and controls specially designed for isostatic presses (capable of achieving a maximum working pressure of 69 MPa or greater, and a chamber cavity with an inside diameter in excess of 152 mm.).	
	85149000004	Dies and molds specially designed for isostatic presses (capable of achieving a maximum working pressure of 69 MPa or greater, and a chamber cavity with an inside diameter in excess of 152 mm.)	
Vibration test systems, equipment, and components	90318030000	- - -Electrodynamic vibration test systems employing feedback or closed loop control techniques and incorporating a digital control unit	040102060000 040102060100 040102060200 040102060300 040102060400
	90319060000	- - - Parts and instruments for digital control units, combined with software specially designed for vibration testing (with a real-time bandwidth greater than 5 kHz and capable of vibrating at 10 g <sub>0</sub> root mean square (rms) or more between 20 and 2000 Hz)	
	90319070000	- - - Parts and instruments for measuring systems containing vibration thrusters (shaker units), with or without associated amplifiers which are usable for electrodynamic vibration test systems (capable of vibrating at 10 g <sub>0</sub> root mean square (rms) or more between 20 and 2000 Hz)	
	90319080000	- - - Parts and instruments for measuring systems containing test piece support structures and electronic units for electrodynamic vibration test systems (capable of vibrating at 10 g <sub>0</sub> root mean square (rms) or more between 20 and 2000 Hz)	



ITEM	HS CODE	DESCRIPTION	INDEX
Vacuum or other controlled atmosphere metallurgical melting and casting furnaces and related equipment	851431000001	Electron beam melting furnaces, plasma atomization furnaces and plasma melting furnaces (having a power of 50 kW or greater and capable of operating with melting temperatures above 1200 °C)	040102070000 040102070100 040102070200 040102070300 040102070400 040102070500
	851432000001	Casting furnaces (having consumable electrode capacities between 1000 and 20000 cm <sup>3</sup> and capable of operating with melting temperatures above 1700 °C)	
	851490000005	Plasma torches for Electron beam melting furnaces and plasma atomization furnaces (having a power of 50 kW or greater and capable of operating with melting temperatures above 1200 °C)	
	851432000002	Arc remelt furnaces, arc melt furnaces (having consumable electrode capacities between 1000 and 20000 cm <sup>3</sup> and capable of operating with melting temperatures above 1700 °C)	
	851490000006	controls specially designed for arc remelt furnaces, arc melt furnaces and casting furnaces (having consumable electrode capacities between 1000 and 20000 cm <sup>3</sup> and capable of operating with melting temperatures above 1700 °C)	
	851490000007	Electron beam guns specially designed for electron beam melting furnaces and plasma atomization furnaces (having a power of 50 kW or greater and capable of operating with melting temperatures above 1200 °C)	
Crucibles made of materials resistant to liquid actinide metals	690390000001	Crucibles made of or lined with tantalum, having a purity of 98% or greater by weight and have a volume of between 150 cm <sup>3</sup> and 8000 cm <sup>3</sup>	040201010000 040201010100 040201010200 040201010300
	690390000002	Crucibles made of or lined with tantalum, having a purity of 98% or greater by weight and have a volume of between 150 cm <sup>3</sup> and 8000 cm <sup>3</sup>	

ITEM	HS CODE	DESCRIPTION	INDEX
Platinized catalysts especially designed or prepared for promoting the hydrogen isotope exchange reaction between hydrogen and water for the recovery of tritium from heavy water or for the production of heavy water	381512000001	Platinized catalysts specially designed or prepared for extracting tritium from heavy water or for the production of heavy water	040201020000
	711510000001	Platinized catalysts specially designed or prepared for extracting tritium from heavy water or for the production of heavy water	
Composite structures in the form of tubes	681513100001	Composite structures in the form of tubes with an inside diameter of between 75 and 400 mm, and made with made with carbon or aramid fibrous or filamentary materials	040201030000
Target assemblies and components for the production of tritium	840120300010	Target assemblies and components for the production of tritium	040201040000 040201040100 040201040200
Tritium facilities or plants, and equipment therefor	840120300009	especially designed or prepared equipment for tritium production plants	040202010000 040202010100 040202010200
Lithium isotope separation facilities or plants, and systems and equipment therefor	840120400000	- - -Lithium isotope separation systems and equipment	040202020000 040202020100 040202020200 040202020300 040202020400
Aluminum alloys	760421000001	Side profiles with a hollow cross-section for aluminum alloys (capable of an ultimate tensile strength of 460 MPa or more at 20 °C)	040203010000
	760820000001	Aluminum alloys in the form of tubes or cylindrical solids (capable of an ultimate tensile strength of 460 MPa or more at 20 °C)	
Beryllium metal, alloys containing more than 50% beryllium by weight, beryllium compounds, manufactures there- of, and waste or scrap of any of the foregoing	811212000001	Not-processed beryllium	040203020000
	811212000004	Powders	
	811213000001	Beryllium waste	
	811213000002	Beryllium Scrap	
	811219000000	- - Other	



ITEM	HS CODE	DESCRIPTION	INDEX
Bismuth	810610000001	Containing more than 99.99 % of bismuth by weight and less than 10 ppm (parts per million) by weight of silver	040203030000
	810690000001	Containing less than 10 ppm (parts per million) by weight of silver	
Boron enriched in the boron-10 ( <sup>10</sup> B)	284520000000	- Boron enriched in boron-10 and its compounds	040203040000
Calcium	280512000001	Calcium (containing less than 1000 ppm by weight of metallic impurities other than magnesium and less than 10 ppm by weight of boron)	040203050000
Chlorine trifluoride (ClF <sub>3</sub> )	281290000006	Chlorine trifluoride (ClF <sub>3</sub> ).	040203060000
Fibrous or filamentary materials, and preregs	550111000001	Aramid filamentary materials (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	040203070000 040203070100 040203070101 040203070102 040203070200 040203070201 040203070202 040203070300
	550311000001	Synthetic staple fibres, not carded, combed or otherwise processed for spinning made of aramid (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	
	681511000001	Carbon fibers for non-electrical uses (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	
	701911000001	Glass fibrous, chopped strands, of a length of not more than 50 mm (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	701912000001	Glass fibrous, "Rovings" (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	701919000001	Other glass fibrous (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	550290000001	Other Artificial filament (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	

ITEM	HS CODE	DESCRIPTION	INDEX
Fibrous or filamentary materials, and preregs	681513500000	- - Tows, yarns, rovings, or continuous strips of carbon fibers (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	040203070000 040203070100 040203070101 040203070102 040203070200 040203070201 040203070202 040203070300
	701913000001	Glass fibrous, yarns or slivers (having a specific modulus of $12.7 \times 10^6$ m or greater and a specific tensile strength of $23.5 \times 10^4$ m or greater)	
	701914000001	Mechanically bonded mats (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	701915000001	Chemically bonded mats (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	701990990001	Tows, yarns, rovings, or continuous strips of carbon fibers reinforced with resin materials and heat-treated (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
	701961000001	Other closed woven fabrics of rovings (having a specific modulus of $3.18 \times 10^6$ m or greater and a specific tensile strength of $7.62 \times 10^4$ m or greater)	
Magnesium	810419000001	Magnesium containing less than 200 ppm by weight of metallic impurities other than calcium and less than 10 ppm by weight of boron	040203080000
	810430100001	Magnesium powder containing less than 200 ppm by weight of metallic impurities other than calcium and less than 10 ppm by weight of boron	
	810490900001	Other magnesium containing less than 200 ppm by weight of metallic impurities other than calcium and less than 10 ppm by weight of boron	
Lithium enriched in the lithium-6 isotope	284530000000	- Lithium enriched in lithium-6 and its compounds	040203090000





ITEM	HS CODE	DESCRIPTION	INDEX
Maraging steel	722410100001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	040203100000
	722410200001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	722599000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	722691000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	722692000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	722699000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730451100001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730459000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730490000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730650100001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730650200001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730650300001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
	730690000001	Maraging steel capable of an ultimate tensile strength of 1950 MPa or more at 20 °C	
Radium-226 (226Ra), radium-226 alloys, radium-226 com- pounds, mixtures containing radium-226, manufactures thereof, and products or devices containing any of the foregoing	284443900002	Radium-226 (226Ra), radium-226 alloys, radium-226 com- pounds, mixtures containing radium-226 for other purposes	040203110000
	284444900001	Other radioactive residues of Radium-226 (226Ra), radium-226 alloys, radium-226 compounds, mixtures containing radium-226 for other purposes	
Titanium alloys	810890000001	Titanium alloys in the form of tubes or cylindrical solid (capable of an ultimate tensile strength of 900 MPa or more at 20 °C with an outside diameter of more than 75 mm)	040203120000

ITEM	HS CODE	DESCRIPTION	INDEX
Tungsten, tungsten carbide, and alloys containing more than 90% tungsten by weight	284990100001	Tungsten carbide (In forms with a hollow cylindrical symmetry with an inside diameter between 100 and 300 mm and mass greater than 20 kg)	040203130000
	810194000004	Unwrought tungsten alloys containing more than 90% tungsten by weight	
	810199000001	Tungsten containing more than 90% tungsten by weight (in forms with a hollow cylindrical symmetry with an inside diameter between 100 and 300 mm and mass greater than 20 kg)	
Zirconium with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight	810921000001	Alloys containing more than 50% zirconium by weight with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight	040203140000
	810931000000	-- Containing less than 1 part hafnium to 500 parts zirconium by weight	
	810991000001	Articles of zirconium containing more than 50% zirconium by weight with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight	
Nickel powder and porous nickel metal	750400100001	Nickel powder (with nickel purity content of 99% or greater by weight and mean particle size of less than 10 µm)	040203150000 040203150100 040203150200
	750610000005	Porous nickel metal produced from nickel powder (with nickel purity content of 99% or greater by weight and mean particle size of less than 10 µm)	
Grounded and ungrounded natural calcium phosphate and natural lime aluminum phosphate	251010000001	Calcium phosphates, natural, not ground	040203160000
	251010000002	Aluminium phosphate, calcareous, natural, not ground	
	251010000003	Phosphatic Chalk	
	251020000001	Calcium phosphates, natural, ground	
	251020000002	Aluminium phosphate, calcareous, natural, ground	
	251020000003	Phosphatic Chalk, ground	



ITEM	HS CODE	DESCRIPTION	INDEX
Rhenium, and alloys containing 90% by weight or more rhenium; and alloys of r and tungsten containing 90% by weight or more of any combination of rhenium and tungsten	811241000001	Alloys containing rhenium or rhenium and tungsten containing 90% by weight and having a mass greater than 20 kg	040203170000
	811249000001	Articles of rhenium with a hollow cylindrical symmetry with an inside diameter between 100 and 300 mm and mass greater than 20 kg	
Hafnium metal, alloys containing more than 60% hafnium by weight, hafnium compounds containing more than 60% hafnium by weight, manufactures thereof, and waste or scrap of any of the foregoing	811231000000	-- Unwrought; waste and scrap; powders	040203180000
	811239000000	-- Other	
Helium-3 ( <sup>3</sup> He), mixtures containing helium-3, and products or devices containing any of the foregoing	284540000000	- Helium-3	040203190000
Frequency changers or generators, usable as a variable frequency or fixed frequency motor drive	850440900005	Frequency changers or generators (capable of providing a power of 40 VA or greater, operating at a frequency of 600 Hz or more and frequency control better than 0.2%)	040301010000
Lasers, laser amplifiers and oscillators	901320900002	Copper vapor lasers (operating at wavelengths between 500 and 600 nm with an average output power equal to or greater than 30 W)	040301020000
			040301020100
			040301020200
			040301020300
			040301020301
			040301020302
			040301020303
			040301020400
			040301020500
			040301020600
			040301020700
			040301020800
			040301020900
			040301021000

ITEM	HS CODE	DESCRIPTION	INDEX
Lasers, laser amplifiers and oscillators	901320900003	Argon ion lasers having both of the following characteristics: -Operating at wavelengths between 400 and 515 nm. -An average output power greater than 40 W.	040301020000 040301020100 040301020200 040301020300 040301020301 040301020302 040301020303 040301020400 040301020500 040301020600 040301020700 040301020800 040301020900 040301021000
	901320900004	Neodymium-doped (other than glass) lasers with an output wavelength between 1000 and 1100 nm)	
	901320900009	Tunable pulsed single-mode dye laser oscillators (operating at wavelengths between 300 and 800 nm with an average output power greater than 1 W.)	
	901320900010	Tunable pulsed single-mode dye laser amplifiers and oscillators (operating at wavelengths between 300 and 800 nm with an average output power greater than 30 W)	
	901320900005	Alexandrite lasers (operating at wavelengths between 720 and 800 nm with a bandwidth of 0.005 nm or less)	
	901320900006	Pulsed carbon dioxide (CO <sub>2</sub> ) lasers (operating at wavelengths between 9000 and 11000 nm with a repetition rate greater than 250 Hz.)	
	901320900007	Pulsed excimer lasers (XeF, XeCl, KrF) (operating at wavelengths between 240 and 360 nm with a repetition rate greater than 250 Hz)	
	901390900001	Para-hydrogen Raman shifters designed to operate at 16 µm output wavelength and at a repetition rate greater than 250 Hz	
	901320900008	Pulsed carbon monoxide (CO) lasers (operating at wavelengths between 5000 and 6000 nm with a repetition rate greater than 250 Hz.)	
Superconducting solenoidal electromagnets	850590000001	Superconducting solenoidal electromagnets (capable of creating magnetic fields greater than 2 T with length to inner diameter greater than 2 and inner diameter greater than 300 mm)	040301030000
High-power direct current power supplies	850440190001	High-power supply (capable of continuously producing 100 V with 500 A or greater over a time period of 8 h, and current or voltage stability better than 0.01%)	040301040000



ITEM	HS CODE	DESCRIPTION	INDEX
High-voltage direct current power supplies	850440190002	High-power supply (capable of continuously producing 100 V with 1 A or greater over a time period of 8 h, and current or voltage stability better than 0.01%)	040301050000
All types of pressure transducers capable of measuring absolute pressures	902620000001	All types of pressure transducers capable of measuring absolute pressures	040301060000 040301060100 040301060200
Vacuum pumps	841410000001	Vacuum pumps (with input throat size equal to or greater than 380 mm and has pumping speed equal to or greater than 15 m <sup>3</sup> /s)	040301070000
Bellows-sealed scroll-type compressors and bellows-sealed scroll-type vacuum pumps	841480900002	Bellows-sealed scroll-type compressors and bellows-sealed scroll-type vacuum pumps (capable of an inlet volume flow rate of 50 m <sup>3</sup> /h or greater and a pressure ratio of 1:2 or greater)	040301080000
	841410000002	Bellows-sealed scroll-type vacuum pumps (capable of an inlet volume flow rate of 50 m <sup>3</sup> /h or greater and a pressure ratio of 1:2 or greater)	
Valves	848180900003	valves with a nominal size of 5 mm or greater having a bellows seal, and wholly made of or lined with aluminium, aluminium alloy, nickel, or nickel alloy containing more than 60% nickel by weight.	040301090000
Electrolytic cells for fluorine production with an output capacity greater than 250 g of fluorine per hour	854330000001	Electrolytic cells for fluorine production (with an output capacity greater than 250 g of fluorine per hour)	040302010000
Rotor fabrication or assembly equipment, rotor straightening equipment, bellows-forming mandrels and dies	846229000001	numerically controlled rotor straightening equipment for alignment of gas centrifuge rotor tube sections to a common axis	040302020000 040302020100
	846594000004	Rotor assembly equipment for assembly of gas centrifuge rotor tube sections, baffles, and end caps	040302020200 040302020300
	681519600000	- - - Bellows-forming mandrels and dies for producing single-convolution bellows.	

ITEM	HS CODE	DESCRIPTION	INDEX
Centrifugal multiplane balancing machines, fixed or portable, horizontal, or vertical	90311000001	Centrifugal balancing machines designed for balancing flexible rotors having a length of 600 mm or more (capable of balancing speed of revolution greater than 5000 rpm)	040302030000 040302030100 040302030200
	90311000002	Centrifugal balancing machines designed for balancing hollow cylindrical rotor components (having capability of from 0.9 to 23 kg)	
Filament winding machines and related equipment	84459000001	Filament winding machines and related equipment and its coordinating and programming controls (capable of winding cylindrical tubes with an internal diameter between 75 and 650 mm and lengths of 300 mm or greater)	040302040000 040302040100 040302040200 040302040300
	84483900001	Precision mandrels for the filament winding machines to create fabricate composite structures or laminates from fibrous or filamentary materials	
Mass spectrometers capable of measuring ions of 230 u or greater and having a resolution of better than 2 parts in 230	90278100001	Mass spectrometers capable of measuring ions of 230 unit or greater and having a resolution of better than 2 parts in 230	040302060000 040302060100 040302060200 040302060300 040302060400 040302060500
Specialized packings which may be used in separating heavy water from ordinary water	840120300006	Specialized packings especially designed for use in separating heavy water from ordinary water	040401010000
Pumps capable of circulating solutions of concentrated or dilute potassium amide catalyst in liquid ammonia	84135000001	Airtight positive displacement pumps capable of circulating solutions of concentrated catalyst	040401020000 040401020100 040401020200
	84136000001	Airtight rotary positive displacement pumps capable of circulating solutions of concentrated catalyst	
	84137000003	Airtight centrifugal pumps capable of circulating solutions of concentrated catalyst	
	841381400000	- - - pumps for use in heavy water production plant	



ITEM	HS CODE	DESCRIPTION	INDEX
Turboexpanders or turboexpander-compressor sets	841181000001	turboexpander-compressor designed for operation with an outlet temperature of 35 K for a throughput of hydrogen gas of 1000 kg/h or greater.	040401030000
	841182000001	turboexpander-compressor designed for operation with an outlet temperature of 35 K for a throughput of hydrogen gas of 1000 kg/h or greater.	
	841480900003	turboexpander-compressor designed for operation with an outlet temperature of 35 K for a throughput of hydrogen gas of 1000 kg/h or greater.	
Hydrogen-cryogenic distillation columns	841990000002	Hydrogen-cryogenic distillation columns (designed for operation at internal temperatures of -238 °C or less and internal pressures of 0.5 to 5 MPa)	040402010000 040402010100 040402010200
Photomultiplier tubes	854089000001	Photomultiplier tubes (Photocathode area of greater than 20 cm <sup>2</sup> with anode pulse rise time of less than 1 ns)	040501010000
High-velocity gun systems (propellant, gas, coil, electro-magnetic, and electrothermal types, and other advanced systems) capable of accelerating projectiles to 1.5 km/s or greater	360350000001	High-velocity gun systems (capable of accelerating projectiles to 1.5 km/s or greater)	040502010000

ITEM	HS CODE	DESCRIPTION	INDEX
High-speed cameras and imaging devices and components therefor	852581900001	Streak cameras with writing speeds greater than 0.5 mm/μs capable of 50 ns or less time resolution	040502020000 040502020100 040502020101
		Framing cameras with recording rates greater than 225,000 frames per second capable of 50 ns or less	040502020102 040502020103 040502020104
		Solid-State cameras or electron tube cameras with a fast image gating (shutter) time of 50 ns or less	040502020105 040502020200 040502020201
	900691000001	Parts or instruments for streak cameras with writing speeds greater than 0.5 mm/μs capable of 50 ns or less time resolution	040502020202 040502020203 040502020204
	900691000002	Parts or instruments for framing cameras with recording rates greater than 225,000 frames per second capable of 50 ns or less	040502020205 040502020300 040502020301
	900691000003	Parts or instruments for solid-state cameras or electron tube cameras with a fast image gating (shutter) time of 50 ns or less	040502020302 040502020303 040502020304
	902620000002	Measuring instruments for measuring pressures greater than 10 GPa, including gauges made with manganin, ytterbium, and polyvinylidene fluoride (PVDF) and polyvinyl difluoride (PVF <sub>2</sub> )	040502030000 040502030100 040502030200 040502030300
Specialized instrumentation for hydrodynamic experiments	902620000003	Measuring instruments made of quartz pressure transducers for pressures greater than 10 GPa	
	903180400000	- - -Velocity interferometers for measuring velocities exceeding 1 km/s during time intervals of less than 10 μs	
High-speed pulse generators, and pulse heads therefor	854320000001	High-speed pulse generators (output voltage greater than 6 V into a resistive load of less than 55 Ω)	040502040000
High explosive containment vessels, chambers, containers, and other similar containment devices designed for the testing of high explosives or explosive devices	902789200000	- - -Measuring instruments designed in the shape of vessels or containers designed to fully contain an explosion equivalent to 2 kg of trinitrotoluene (TNT) or greater equipped with transfer of diagnostic or measurement information	040502050000





ITEM	HS CODE	DESCRIPTION	INDEX
firing sets and equivalent high current pulse generators	360350000002	Detonators and multipoint initiation systems including electronically-charged, explosively-driven and optically-driven	040601020000 040601020100 040601020200 040601020300
	854320000002	Modular electrical pulse generators (pulsers) (Capable of delivering their energy in less than 15 $\mu$ s into loads of less than 40 $\Omega$ with an output greater than 100 A)	
	360350000003	Micro-firing units (no dimension greater than 35 mm with voltage rating of equal to or greater than 1 kV and capacitance of equal to or greater than 100 nF)	
Switching devices	854060000001	Cold-cathode tubes, whether gas filled or not, operating similarly to a spark gap (Containing three or more electrodes, anode peak voltage rating of 2.5 kV or more, anode peak current rating of 100 A or more, and anode delay time of 10 $\mu$ s or less)	040601030000 040601030100 040601030200 040601030300
	853590000002	Make-and-break switches and spark gap switching devices (containing three or more electrodes, anode peak voltage rating of 2.5 kV or greater)	
	853590000003	Modules or assemblies for make-and-break switches with a fast-switching function (anode peak voltage rating greater than 2 kV)	
Pulse discharge capacitors	853229000001	Pulse discharge capacitors (having a voltage rating greater than 1.4 kV with capacitance greater than 0.5 $\mu$ F)	040601040000 040601040100 040601040200
Striplines to provide low inductance path to detonators	360320000001	Striplines to provide low inductance path to detonators (with voltage rating greater than 2 kV and inductance of less than 20 nH)	040601050000

ITEM	HS CODE	DESCRIPTION	INDEX
High explosive substances or mixtures, containing more than 2% by weight of any of the following: <ul style="list-style-type: none"> <li>- cyclotetramethylenetetranitramine (hmx) (cas 2691- 41-0).</li> <li>- cyclotrimethylenetrinitramine (rdx) (cas 121-82-4).</li> <li>- triaminotrinitrobenzene (tatb) (cas 3058-38-6).</li> <li>- aminodinitrobenzo-furoxan or 7-amino-4,6 nitrobenzo- furazane-1-oxide (adnbf) (cas 97096- 78-1).</li> <li>- 1,1-diamino-2,2-dinitroethylene (dade or fox7) (cas 145250-81-3).</li> <li>- 2,4-dinitroimidazole (dni) (cas 5213-49-0).</li> <li>- diaminoazoxyfurazan (daaof or daaf) (cas 78644- 89-0).</li> <li>- diaminotrinitrobenzene (datb) (cas 1630-08-6).</li> <li>- dinitroglycoluril (dngu or dingu) (cas 55510-04-8).</li> <li>- 2,6-bis (picrylamino)-3,5-dinitropyridine (pyx) (cas 38082-89-2).</li> <li>- 3,3'-diamino-2,2',4,4',6,6'-hexanitrobiphenyl or dipicra- mide (dipam) (cas 17215-44-0).</li> <li>- diaminoazofurazan (daazf) (cas 78644-90-3).</li> <li>- 1,4,5,8-tetranitro-pyridazino[4,5-d] pyridazine (tnp) (cas 229176-04-9).</li> <li>- hexanitrostilbene (hns) (cas 20062-22-0).</li> <li>- any explosive with a crystal density greater than 1.8 g/ cm<sup>3</sup> and having a detonation velocity greater than 8000 m/s</li> </ul>	360200000003	Explosives composed of mixtures of organic nitrate or nitrous compounds	040603010000 040603010100 040603010200 040603010300 040603010400 040603010500 040603010600 040603010700 040603010800 040603010900 040603011000 040603011100 040603011200 040603011300 040603011400 040603011500
	360200000004	Explosives composed of mixtures of ammonium nitrate	
	360200009999	Other	



©Nuclear and Radiological Regulatory Commission , 2025  
Nuclear and Radiological Regulatory Commission  
National Nuclear Regulatory Controlled Items (Annex).  
/ Nuclear and Radiological Regulatory Commission .-  
Riyadh , 2025  
..p ; ..cm





**هيئة الرقابة النووية والإشعاعية**  
Nuclear and Radiological Regulatory Commission

Kingdom of Saudi Arabia



| @saudinrrc



nrrc.gov.sa