

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 09/07/1445 AH, 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 19/10/1407 AH .

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 AH (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 medical diagnostic purposes	010100020000
	284430190000	---- For other medical purposes	
	284430900000	--- Other	
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	Other 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
	284420190000	---- For other medical purposes	010200040000
	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	



ITEM	HS CODE	DESCRIPTION	INDEX
Uranium ores	261210000001	Autunite Ore	010200060100
	261210000002	Brannerite Ore (uranium titanates)	
	261210000003	Carnotite Ore	
	261210000004	Coffinite Ore (uranium silicate)	
	261210000005	Davidite Ore (uranium and iron titanates)	
	261210000006	Parsonsite Ore	
	261210000008	Torbernite Ore	
	261210000009	Tyuyamunite Ore	
	261210000010	Uranophane Ore (calcium and uranium silicate)	
	261210000011	Uranothorite Ore (Uranium and Thorium oxide)	
	261210000012	Autunite Ore Concentrates	
	261210000013	Brannerite Ore Concentrates (uranium titanates)	
	261210000014	Carnotite Ore Concentrates	
	261210000015	Coffinite Ore Concentrates (Uranium Silicate)	
	261210000016	Davidite Ore Concentrates	
	261210000017	Parsonsite Ore Concentrates	
	261210000018	Pitchblende and Uraninite Ore Concentrates	
	261210000019	Torbernite Ore Concentrates	
	261210000020	Tyuyamunite Ore Concentrates	
	261210000021	Uranophane Ore Concentrates	
	261210000022	Uranothorite Ore Concentrates (Uranium and Thorium Oxide)	
	261210009999	Other	
Thorium ores	261220000001	Monazite Ore	010200060200
	261220000002	Thorite Ore	
	261220000003	Monazite Ore Concentrates	
	261220000004	Thorite Ore Concentrates	
	261220009999	Other	

ITEM	HS CODE	DESCRIPTION	INDEX
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	
	284443909999	Other radioactive materials	
	284444110000	---- For medical diagnostic purposes	
	284444190000	---- For other medical purposes	
	284444909999	Other radioactive residues	



ITEM	HS CODE	DESCRIPTION	INDEX
Radiation generators	902219900003	Flash X-ray generators (with peak energy of 0.5 MeV but less than 25 MeV)	02020000000
	854310000001	Pulsed electron accelerators (with peak energy of 500 keV or more)	
	902219900004	Ionizing radiation generator systems (Neutrons), including tubes (triggering tritium-deuterium reactions via electrostatic vacuum acceleration)	
	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 device	
	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	
	902219900001	X-ray machines for inspection of containers and vehicles	
	902219900002	X-ray machines for people (eg used in airports, etc.)	
	902219909999	Other x-ray machines for other uses	
	902221000001	Alpha rays medical or surgical devices	
	902221000002	Alpha rays dental devices	
	902221000003	Alpha rays veterinary 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	
	902290000001	Parts and accessories of X-Ray luggage inspection devices	
	902290009999	Other	
Complete nuclear reactors	840110000000	- Nuclear reactors	030101000000



ITEM	HS CODE	DESCRIPTION	INDEX
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 and 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	030110000000 030300050000
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



ITEM	HS CODE	DESCRIPTION	INDEX
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
	846190000001	Automated equipment to remove and chop the cladding from irradiated nuclear fuel	
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
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	Gas centrifuges and assemblies and components especially designed or prepared for use in gas centrifuges	030500010000
Gas centrifuges static components	840120100001	Gas centrifuges' rotating components used for isotopic separation of natural uranium, depleted uranium or special fissionable material	030500010200 030500010201 030500010202 030500010203 030500010204 030500010205 030500010206
	840120100002	Gas centrifuges' static components used for isotopic separation of natural uranium, depleted uranium or special fissionable material	
	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	
	848280000002	magnetically suspended bearings/dampers (ball bearing) use for gas centrifuges used in gas centrifuge for uranium enrichment	

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 for 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 030500051000
UF ₆ mass spectrometers/ion sources	840120210004	UF ₆ 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 ₆ from the centrifuges	030500020500
Especially designed or prepared assemblies and components for use in gaseous diffusion enrichment	840120220000	Especially designed or prepared assemblies and components for use in gaseous diffusion enrichment	030500030000
	840120229999	Other	
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 ₆ -resistance materials	030500030100 030500030101 030500030102
Diffuser housings	840120220001	hermetically sealed vessels for containing the gaseous diffusion barrier, made of or protected by UF ₆ -resistant materials	030500030200



ITEM	HS CODE	DESCRIPTION	INDEX
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
Rotary shaft seals	848420000001	vacuum seals especially designed or prepared for reliable seal against in-leaking of UF ₆	030500030400 030500050400 030500070800
Heat exchangers for cooling UF ₆	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	Especially designed or prepared 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	Especially designed or prepared 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 ₆ 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

ITEM	HS CODE	DESCRIPTION	INDEX
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
UF ₆ /carrier gas separation systems	840120240003	Especially prepared process systems for separating UF ₆ 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	Especially designed or prepared 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)	840120280001	Uranium reduction systems and equipment by chemical exchange (can be paired with electrochemical reduction cells)	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



ITEM	HS CODE	DESCRIPTION	INDEX
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
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

ITEM	HS CODE	DESCRIPTION	INDEX
Uf6/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
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



ITEM	HS CODE	DESCRIPTION	INDEX
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
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	Plants for the production or concentration of heavy water, deuterium and deuterium compounds and equipment especially designed or prepared therefor	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 ₃ crackers	840120300004	NH ₃ 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 ₃ synthesis converters or synthesis units	840120300008	NH ₃ synthesis converters or synthesis units for heavy water production utilizing the ammonia-hydrogen exchange process.	030600090000

ITEM	HS CODE	DESCRIPTION	INDEX
Plants and equipment especially designed or prepared for the conversion of uranium	847989950000	Plants and equipment especially designed or prepared for the conversion of uranium	030700000000 030700010000
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



ITEM	HS CODE	DESCRIPTION	INDEX
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
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
			040102010200

ITEM	HS CODE	DESCRIPTION	INDEX
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 040102020100 040102020200 040102020201 040102020202 040102020203 040102020300 040102020301 040102020302 040102020303 040102020400
	845811000001	Horizontal turning machine tools with positioning accuracies better than 6 µm	
	845891000001	Other turning machine tools with positioning accuracies better than 6 µm	
	846029000001	Other grinding machine tools with positioning accuracies better than 4 µm	
	845931000001	Milling machine tools with positioning accuracies better than 6 µm	
	845951000001	Knee-type milling machine tools with positioning accuracies better than 6 µm	
	846012000001	Flat-surface grinding machine tools with positioning accuracies better than 4 µm	
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 µm)	
	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 µm 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 µm per 5 mm and angular position deviation equal to or less than 0.02°)	



ITEM	HS CODE	DESCRIPTION	INDEX
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
	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	040102040100 040102040200
Isostatic presses and related equipment	851411000001	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
	847983000001	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.)	
	847990000002	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).	
	851490000004	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.)	



ITEM	HS CODE	DESCRIPTION	INDEX
Vibration test systems, equipment, and components	903180300000	---Electrodynamic vibration test systems employing feedback or closed loop control techniques and incorporating a digital control unit	040102060000 040102060100 040102060200 040102060300 040102060400
	903190600000	--- 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 ₀ root mean square (rms) or more between 20 and 2000 Hz)	
	903190700000	--- 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 ₀ root mean square (rms) or more between 20 and 2000 Hz)	
	903190800000	--- 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 ₀ 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 ³ 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 ³ 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 ³ 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 ³ and 8000 cm ³	040201010000 040201010100 040201010200 040201010300
	690390000002	Crucibles made of or coated with any of the following materials (calcium fluoride, calcium zirconate , cerium sulphide , erbium oxide , hafnium oxide , magnesium oxide, nitrided niobium-titanium-tungsten alloy, yttrium oxide, zirconium oxide) and have a volume of between 150 cm ³ and 8000 cm ³	

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	38151200001	Platinized catalysts specially designed or prepared for extracting tritium from heavy water or for the production of heavy water	040201020000
	71151000001	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	68151310001	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	76042100001	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
	76082000001	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	81121200001	not-processed Beryllium	040203020000
	81121200004	powders	
	81121300001	Beryllium waste	
	81121300002	Beryllium Scrap	
	81121900000	-- 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 (¹⁰ 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 ₃)	281290000006	Chlorine trifluoride (ClF ₃).	040203060000
Fibrous or filamentary materials, and preregs	550111000001	Aramid filamentary materials (having a specific modulus of 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 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 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 m or greater)	
	681511000001	Carbon fibers for non-electrical uses (having a specific modulus of 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 m or greater)	
Fibrous or filamentary materials, and preregs	701911000001	Glass fibrous, chopped strands, of a length of not more than 50 mm (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	
	701912000001	Glass fibrous, "Rovings" (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	
	701919000001	Other glass fibrous (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	

ITEM	HS CODE	DESCRIPTION	INDEX
Fibrous or filamentary materials, and preregs	550290000001	Other Artificial filament (having a specific modulus of 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 m or greater)	040203070000 040203070100 040203070101 040203070102 040203070200 040203070201 040203070202 040203070300
	681513500000	--- Tows, yarns, rovings, or continuous strips of carbon fibers (having a specific modulus of 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 m or greater)	
	701913000001	Glass fibrous, yarns or slivers (having a specific modulus of 12.7×10^6 m or greater and a specific tensile strength of 23.5×10^4 m or greater)	
	701914000001	Mechanically bonded mats (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	
	701915000001	Chemically bonded mats (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 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 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	
	701961000001	Other closed woven fabrics of rovings (having a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater)	



ITEM	HS CODE	DESCRIPTION	INDEX
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 compounds, mixtures containing radium-226, manufactures thereof, and products or devices containing any of the foregoing	284443900002	Radium-226 (226Ra), radium-226 alloys, radium-226 compounds, 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
	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)	040203150100 040203150200
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 c 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 (³ 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



ITEM	HS CODE	DESCRIPTION	INDEX
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
	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.	
	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 ₂) 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	
Superconducting solenoidal electromagnets	901320900008	Pulsed carbon monoxide (CO) lasers (operating at wavelengths between 5000 and 6000 nm with a repetition rate greater than 250 Hz.)	040301030000
	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)	

ITEM	HS CODE	DESCRIPTION	INDEX
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
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 ³ /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 ³ /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 ³ /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



ITEM	HS CODE	DESCRIPTION	INDEX
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
	846594000004	Rotor assembly equipment for assembly of gas centrifuge rotor tube sections, baffles, and end caps	040302020100 040302020200 040302020300
	681519600000	- - - Bellows-forming mandrels and dies for producing single-convolution bellows.	
Centrifugal multiplane balancing machines, fixed or portable, horizontal, or vertical	903110000001	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
	903110000002	Centrifugal balancing machines designed for balancing hollow cylindrical rotor components (having capability of from 0.9 to 23 kg)	040302030200
Filament winding machines and related equipment	844590000001	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
	844839000001	Precision mandrels for the filament winding machines to create fabricate composite structures or laminates from fibrous or filamentary materials	040302040300
Mass spectrometers capable of measuring ions of 230 u or greater and having a resolution of better than 2 parts in 230	902781000001	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

ITEM	HS CODE	DESCRIPTION	INDEX
High explosive substances or mixtures, containing more than 2% by weight of any of the following:	360200000003	Explosives composed of mixtures of organic nitrate or nitrous compounds	
A) Cyclotetramethylenetetranitramine (HMX) (CAS 2691-41-0)	360200000004	Explosives composed of mixtures of ammonium nitrate	
B) Cyclotrimethylenetrinitramine (RDX) (CAS 121-82-4)			
C) Triaminotrinitrobenzene (TATB) (CAS 3058-38-6)			
D) Aminodinitrobenzo-furoxan or 7-amino 4,6 nitrobenzofurazane -1-oxide (ADBNF) (CAS 97096-78-1)			040603010000
E) 1,1 diamino-2,2-dinitroethylene (DADE or FOX7) (CAS 145250-81-3)			040603010100
F) nitroimidazole – 2,4 (DNI) (CAS 5213-49-0)			040603010200
G) Diaminoazoxyfurazan (DAAOF or DAAF) (CAS 78644-89-0)			040603010300
H) Diaminotrinitrobenzene (DATB) (CAS 1630-08-6)			040603010400
I) Dinitroglycoluril (DNGU or DINGU) (CAS 55510-04-8)			040603010500
J) 2,6 - Bis (picrylamino)-3,5-dinitropyridine (PYX) (CAS 38082-89-2)			040603010600
K) 3,3 - diamino-2,2',4,4',6,6'-hexanitrobiphenyl or dipicramide DIPAM (CAS 17215-44-0)			040603010700
L) Diaminoazofurazan (DAAzF) (CAS 78644-90-3)			040603010800
M) 1,4,5,8 tetranitro-pyridazino [4,5-d] pyridazine (TNP) (CAS 229176-04)			040603010900
N) Hexanitrostilbene (HNS) (CAS 0-22-20062)	360200009999	Other	040603011000
O)			040603011100
- any explosive with a crystal density greater than 1.8 g/ cm ³ and having a detonation velocity greater than 8000 m/s			040603011200
			040603011300
			040603011400
			040603011500



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