

List-controlled Items - i. (for reference)

※As of December, 2022

Number	Item	Number	Item	Number	Item	Number	Item
1. Arms		(12)	1. Numerically-controlled machine tools	(45)	Radiation shielding windows or frames	(15)	Structural materials for rockets or UAVs
(1)	Firearms, ammunitions	(13)	2. Measurement equipment	(46)	TV cameras or lenses specially designed for protection from the influence of radiation	(16)	Accelerometers or gyroscopes for rockets or UAVs
(2)	Explosives, explosive dispensers	(14)	Induction furnaces, arc furnaces or melting furnaces	(47)	Tritium	(17)	Flight controllers or attitude controllers, et alia, for rockets or UAVs
(3)	Propellants, military fuels	(15)	Isostatic presses	(48)	Equipment for the production, collection or preservation of tritium	(18)	Avionics equipment
(4)	Propellants, military fuels	(16)	Robots	(49)	Platinized catalysts	(18 - 2)	Thermoelectric batteries for rockets or UAVs
(5)	Directed-energy weapons	(17)	Vibration test systems	(50)	Helium-3	(19)	Gravity meters or gravity gradiometers for aircraft or ship mounting
(6)	Kinetic energy weapons and projectiles	(18)	Structural materials for gas centrifuge rotors	(51)	Primary products of rhenium	(20)	Launch pads or associated ground launch support equipment for rockets or UAVs
(7)	Military vehicles, bridges, etc.	(19)	Beryllium	(52)	Containers with explosion-proof construction	(21)	Radio telemetry equipment, radio telecontrol equipment for rockets or UAVs
(8)	Military vessels, etc.	(20)	Substances used as alpha sources for the detonation of nuclear weapons	3. Chemical Weapons		(22)	Computers designed for use in a rocket
(9)	Military aircraft, etc.	(21)	Boron 10	(1)	Raw materials for chemical warfare agents or substances/raw materials having equivalent toxic ability with chemical warfare agents	(23)	Analog-to-digital converters for rockets or UAVs
(10)	Anti-submarine nets, anti-torpedo nets	(22)	Substances used as reducing or oxidizing agents for the production of nuclear fuel materials	(2)	Equipment or device for the production of chemical agents	(24)	Vibration test equipment, aerodynamics testing equipment, combustion test equipment, et alia
(11)	Armor plates, military helmets, body armors	(23)	Crucibles	(3)	Equipment of components for repair of reactors or containers	(24 - 2)	Electronic computers used for designing rockets
(12)	Military searchlights or control equipment	(24)	Hafnium	3 - 2. Biological Weapons		(25)	Materials or equipment for reducing the level of the radio waves, acoustic waves or light
(13)	Bacterial/chemical warfare agents	(25)	Lithium	(1)	Source materials for bacterial warfare agents	(26)	Integrated circuits, detectors, or radomes for rockets or UAVs
(13 - 2)	Chemical compounds for clarifying bacterial/chemical warfare agents	(26)	Tungsten	(2)	Equipment for the production of bacterial agents	5. Advanced Materials	
(14)	Biopolymers for chemical agents, etc.	(27)	Zirconium	4. Missiles		(1)	Fluorine compound products
(15)	Equipment for the production/test of warfare low explosives	(28)	Electrolytic cells for fluorine production	(1)	Rockets or their production equipment	(2)	(delete)
(16)	Equipment or device for the production of arms	(29)	Equipment for the production of gas centrifuge rotors	(1 - 2)	Unmanned aerial vehicles (UAVs) or their production equipment	(3)	Aromatic polyimide products
(17)	Military satellites or components thereof	(30)	Centrifugal balancing machines	(2)	Guidance or testing equipment for rockets	(4)	Tools for forming of titanium, aluminum or its alloys
2. Nuclear Power		(31)	Filament winding machines	(3)	Propulsion units	(5)	Alloys or powders of titanium or aluminum and their production equipment
(1)	Nuclear fuel or nuclear source materials	(32)	Laser oscillators	(4)	Flow-forming machines	(6)	Metallic magnetic materials
(2)	Nuclear reactors or power-generating equipment for nuclear reactors	(33)	Mass spectrometers or ion sources	(5)	Servo valves, pumps, gas turbines	(7)	Uranium-titanium alloys or tungsten alloys
(3)	Deuterium or deuterium compounds	(34)	Pressure gauges or bellows valves	(5 - 2)	Bearings for pumps	(8)	Superconductive materials
(4)	Artificial graphite	(35)	Superconducting solenoid electromagnets	(6)	Propellants or their raw materials	(9)	(delete)
(5)	Equipment for the separation/reprocessing of nuclear fuel materials	(35 - 2)	Vacuum pumps	(7)	Equipment for the production/test of propellants	(10)	Lubricants
(6)	Equipment for the separation of lithium isotopes	(36)	Scroll-type compressors and vacuum pumps	(8)	Powder and granular materials mixers	(11)	Liquids for preventing vibration
(7)	Equipment for the separation of uranium/plutonium isotopes	(37)	Direct current power units	(9)	Jet mills or equipment for the production of metal powders	(12)	Liquids for coolant
(8)	Frequency changers	(38)	Electron accelerators or X-ray generators	(10)	Equipment for the production of composite materials	(13)	Ceramic powders
(9)	Nickel powder, nickel porous metal	(39)	Impact testing machines	(11)	Nozzles	(14)	Ceramic composites
(10)	Equipment for the production of deuterium or deuterium compounds	(40)	High speed cameras	(12)	Equipment, et alia, for the production of nozzle or re-entry vehicle nose tips	(15)	Polydiorgano silane or polysilazane, et alia
(10 - 2)	Equipment for the production of uranium/plutonium	(41)	Interferometers, pressure gauges, pressure transducers	(13)	Isostatic presses or controllers	(16)	Bismaleimide or aromatic polyamideimide, et alia
(11)	Flow-forming machines	(42)	Goods used for the detonation (testing) of nuclear weapons	(14)	Furnaces or controllers for composite materials	(17)	Fluorinated polyimides
		(43)	Photomultiplier tubes			(18)	Molded products that use prepreps or preforms
		(44)	Neutron generators			(19)	Boron, boron carbide, guanidine nitrate
			Remote control manipulators				

List-controlled Items - ii. (for reference)

※As of December, 2022

Number	Item	Number	Item	Number	Item	Number	Item
6. Material Processing		(20)	Aluminum, gallium and other organic metallic compounds Phosphorus, arsenic and other organic compounds	(7)	Controllers of optical equipment or components	(1)	Gas turbine engines
(1)	Bearings	(21)	Phosphorus, arsenic or antimony hydrides	(7 - 2)	Aspherical optical elements	(2)	Spacecrafts for satellite or space development use
(2)	Numerically-controlled (N/C) machine tools	(22)	Silicon carbides	(8)	Laser oscillators	(2 - 2)	Controllers designed for use in satellites
(3)	Machine tools for the production of gears	(23)	Polycrystal substrate	(8 - 2)	Laser microphone	(3)	Rocket propulsion systems
(4)	Isostatic presses	8. Computers		(9)	Magnetometers, underwater electric field sensors or magnetic field gradiometers, or calibrating equipment thereof	(4)	Unmanned aerial vehicles
(5)	Coating devices	(1)	Computers	(9 - 2)	Underwater monitoring systems	(5)	Testing/production equipment for items 1) through 4), and 10) of 15.
(6)	Measurement equipment	9. Telecommunication		(10)	Gravity meters or gravity gradiometers	14. Miscellaneous	
(7)	Robots	(1)	Telecommunication transmission equipment	(11)	Radars	(1)	Metallic fuel in a powder state
(8)	Feedback devices, et alia	(2)	Electronic changers	(11-2)	Masks and reticles, specially designed for optical sensors	(2)	Substances which are additives or precursors to low explosives or high explosives
(9)	Spin-forming machines	(3)	Communication optical fibers	(12)	Equipment for measuring optical reflectance, et alia	(3)	Diesel engines
7. Electronics		(4)	(delete)	(13)	Equipment for the manufacture or calibration equipment of gravity meters	(4)	(delete)
(1)	Integrated circuits	(5)	Phased array antennas	(14)	Materials, et alia, for optical detectors or components thereof	(5)	Self-contained diving equipment
(2)	Devices using microwaves or millimeter waves	(5 - 2)	Radio direction finding equipment for monitoring use	11. Navigation Devices		(6)	Civil engineering machinery for air transportation
(3)	Signal processing equipment	(5 - 3)	Wireless communication wiretapping devices	(1)	Accelerators	(7)	Robots or control equipment thereof
(4)	Devices using superconductive materials	(5 - 4)	Equipment capable of detecting the position of objects by observing interferences of radio waves, possessing a receiving function only	(2)	Gyroscopes	(8)	Electric braking shutters
(5)	Superconducting electromagnets	(5 - 5)	Internet communication monitoring equipment	(3)	Inertial navigation systems	(9)	Tear or sneeze gas and application equipment thereof
(6)	Primary/secondary or solar cells	(6)	Design/production equipment for items 1) through 3), and 5) through 5.5)	(4)	Gyro-astro compasses, global navigation satellite systems, equipment for receiving radio waves, or aircraft altimeters	(10)	Simplified explosion devices
(7)	High voltage capacitors	(7)	Encryption equipment	(4 - 2)	Underwater navigation devices using sonar	(11)	Detectors for explosives
(8)	Encoders	(8)	Equipment designed to prevent the leakage of information transmission signals	(5)	Testing/production equipment for items 1) through 4-2)	15. Sensitive Items	
(8 - 2)	Thyristor devices or modules	(9)	(delete)	12. Marine		(1)	Molded goods using inorganic fibers, et alia
(8 - 3)	Semiconductor devices for power control	(10)	Communication cable systems capable of detecting surreptitious intrusion	(1)	Submersible vessels/vehicles	(2)	Radio wave absorbers or conductive polymers
(8 - 4)	Optical modulator	(11)	Design/production/measurement equipment for items 7), 8) or 10)	(2)	Vessel components or auxiliaries thereof	(3)	Nuclear heat source materials
(9)	Sampling oscilloscopes	10. Sensors		(3)	Underwater salvage systems	(4)	Digital telecommunication transmission equipment
(10)	Analog-to-digital converters	(1)	Underwater acoustic equipment	(4)	Underwater lighting systems	(4 - 2)	Units for obstruction of simplified explosion devices
(11)	Digital instrumentation recorders	(2)	Optical detectors or coolers thereof	(5)	Underwater robots	(5)	Underwater acoustic equipment
(12)	Signal generators	(3)	Optical fibers for use in sensors	(6)	Sealed power units	(6)	Optical detectors for space use
(13)	Frequency analyzers	(4)	High speed cameras	(7)	Circulation water tanks	(7)	Radars which utilize a transmitting pulse width less than 100 nanoseconds
(14)	Network analyzers	(5)	Reflectors	(8)	Buoyant materials	(8)	Submersible boats
(15)	Atomic frequency standards	(6)	Optical components for space use	(9)	Closed-circuit or semi-closed circuit self-contained diving equipment	(9)	Soundproofing devices for vessels
(15 - 2)	Spray cooling method temperature control devices	13. Propulsion Units		(10)	Underwater acoustic transmitters used for obstruction	(10)	Ramjet engines, scramjet engines, combined cycle engines
(16)	Semiconductor manufacturing equipment						
(17)	Masks or reticles						
(17 - 2)	Materials for production of masks						
(18)	Semiconductor substrate						
(19)	Resists						