

**Ministry of Commerce and General Administration of Customs Announcement [2025] No.56**  
**Decision on the Implementation of Export Control over Certain Rare Earth Equipment and**  
**Raw Materials Related Items**

[Issuing authority] Bureau of Safety and Control

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In accordance with the Export Control Law of the People's Republic of China, the Foreign Trade Law of the People's Republic of China, the Customs Law of the People's Republic of China, and the Regulations of the People's Republic of China on Export Control of Dual-Use Items, and in order to safeguard national security and interests and fulfill international obligations such as non-proliferation, the State Council has decided to impose export control on the following items with the approval of the State Council:

I. 2B902 Rare earth production and processing equipment

(1) 2B902.a. Centrifugal extraction equipment for rare earth production and processing.

(2) 2B902.b. Intelligent continuous impurity removal and precipitation equipment for ion-type rare earth ore with daily leachate processing capacity of no less than 5000 m<sup>3</sup>.

(3) 2B902.c. A roasting kiln for rare earths having all the following characteristics:

1. Size range  $\Phi 1.8 \times 20 \text{ m} \sim \Phi 4.6 \times 80 \text{ m}$ ;

2. The lining material of the kiln barrel includes graphite bricks, high-alumina bricks, mullite bricks and other materials resistant to concentrated sulfuric acid, hydrofluoric acid corrosion and temperature;

3. The reaction temperature is less than or equal to 850°C.

(4) 2B902.d. Extraction tank for mixing chamber volume 0.5~14.2m<sup>3</sup> used in rare earth separation and purification.

(5) 2B902.e. Ion adsorption equipment for rare earth separation and purification.

(6) 2B902.f. Reaction tank volume A rare earth precipitation and crystallization reaction tank with a volume of 10~50 m<sup>3</sup>.

(7) 2B902.g. Parts and components for the items controlled by 2B902.f this Article:

1. Sedimentation and crystallization stirrer (reference tariff number: 84798999);

2. Stirring paddle (reference tariff number: 84799090);

3. Motor with output power 5.5~37 kW.

(8) 2B902.h. A rare earth resistance furnace with all the following characteristics (reference tariff number: 85141990):

1. Reaction temperature 320~650°C;

2. The parts are made of corrosion-resistant materials such as manganese steel and nickel-chromium alloy steel.

(9) 2B902.i. Any of the following equipment used for rare earth metal electrolysis:

1. Electrolytic rectification equipment;

2. Feeding equipment;

3. Rare earth metal siphon furnace system;

4. Exhaust treatment equipment.

(10) 2B902.j. Rare earth electrolytic cells having all of the following characteristics (reference tariff number: 85433000):

1. The trough is a fire brick masonry trough;

2. The anode is graphite;

3. The anode is tungsten;

4. Current range 6000~30000 A;

5. Anode current density range 5~7 A/cm<sup>2</sup>;

6. The cathode current density ranges from 1 to 2 A/cm<sup>2</sup>.

(11) 2B902.k. A vacuum induction reduction furnace with all the following characteristics:

1. Medium frequency power supply frequency 1~8 kHz;

2. Heating temperature 0~1700°C;

3. The vacuum degree is greater than or equal to  $1 \times 10^{-3} \text{ Pa}$ ;

4. Smelting capacity 10~300 kg.

(12) 2B902.l. A vacuum carbon tube furnace with all the following characteristics:

1. Heating temperature 0~1700°C;
2. The vacuum degree is greater than or equal to  $1 \times 10^{-3}$  Pa;
3. Smelting capacity 10~300 kg.

(13) 2B902.m. A rare earth crystal growth furnace for pulling with all the following characteristics (reference tariff number: 85142000):

1. The heating method is induction heating;
2. The maximum heating temperature is greater than or equal to 2300°C;
3. It has the function of automatic equal diameter control and crystal growth.

(14) 2B902.n. A rare earth crystal growth furnace with all the following characteristics of crucible descent method (reference tariff number: 85141990):

1. The heating method is resistance heating;
2. The maximum heating temperature is greater than or equal to 1400°C;
3. Multi-temperature heating function.

(15) 2B902.o. Rare earth permanent magnet vacuum induction casting furnace:

1. Periodic vacuum induction casting furnace (reference tariff number: 85142000);
2. Induction heating vacuum melting furnace.

(16) 2B902.p. Parts and components for the controlled items in 2B902.o this section:

1. Water-cooled cable;
2. Copper roller;
3. Crater;
4. Inclination controller;
5. Cooling system.

(17) 2B902.q. Rare earth permanent magnet hydrogen crushing furnace:

1. Continuous atmosphere heat treatment furnace;
2. Rotate the hydrogen crusher;
3. Explosion-proof continuous hydrogen crushing furnace.

(18) 2B902.r. Parts and components for the controlled items in 2B902.q:

1. Valves;
2. Hydrogen junction.

(19) 2B902.s. Air milling for rare earth permanent magnets with all the following characteristics:

1. Particle size less than or equal to 5  $\mu\text{m}$ ;
2. The total yield of powder is greater than or equal to 99%;
3. The oxygen content in the system is less than or equal to 80ppm.

(20) 2B902.t. A rare earth permanent magnet forming press containing a magnetic field with a magnetic induction intensity greater than or equal to 1.5T.

(21) 2B902.u. Automatic hot pressing equipment for rare earth permanent magnets.

(22) 2B902.v. Cold isostatic pressure presses for rare earth permanent magnets not controlled under 2B104 (reference tariff number: 84798310).

(23) 2B902.w. Any rare earth permanent magnet vacuum sintering furnace with cooling time less than or equal to 20 min, heating temperature 500~1200°C, and temperature uniformity within  $\pm 3^\circ\text{C}$  at 1000°C;

1. Single bed sintering furnace;
2. Continuous vacuum sintering furnace;
3. Vertical sintering furnace.

(24) 2B902.x. Equipment used for processing rare earth magnetic materials:

1. Multi-wire cutting machine;
2. Laser cutting equipment;
3. Automatic glue machine;

4. Vertical grinding;
5. Double-sided grinding;
6. End face grinding;
7. Through grinding machine.

(25) 2B902.y. Crystal boundary diffusion equipment:

1. Physical gas phase deposition magnetron sputtering coating equipment (reference tariff number: 84798999);
2. Rare earth permanent magnet vacuum diffusion furnace;
3. Screen printing device for rare earth permanent magnet.

(26) 2B902.z. Vertical kilns with a size range of  $\Phi 19 \times 21$  m or more for the recovery and utilization of secondary rare earth resources.

II. 1C914 Items related to raw and auxiliary materials for rare earths

(1) 1C914.a. Rare earth minerals (reference tariff number: 25309020):

1. Fluorocarbon cerium ore;
2. Solitary stone;
3. Ion adsorption rare earth minerals.

(2) 1C914.b. Rare earth mineral flotation reagent containing hydroxamic acid or phosphate ester collector.

(3) 1C914.c. Extractants used in rare earth production:

1. P507: 2-Ethylhexylphosphonic acid mono-2-ethylhexyl ester (CAS 14802-03-0) (reference tariff number: 29319000);
2. P204: di(2-ethylhexyl) phosphate (CAS 298-07-7) (reference tariff number: 29199000);
3. Cycloalkanoic acid (CAS 1338-24-5) (reference tariff number: 38249999);
4. N235: Trihexadecyl tert-amine (CAS 68814-95-9) (reference tariff number: 38249999);
5. C272: Bis(2,4,4-trimethylpentyl)phosphonic acid (CAS 83411-71-6).

Exporters exporting the above items shall apply to the competent commercial department under The State Council for permission in accordance with the relevant provisions of the Export Control Law of the People's Republic of China and the Regulations of the People's Republic of China on Export Control of Dual-Use Items.

Export operators shall ensure the authenticity of declared goods and enhance identification of export items. For controlled items, they must specify "Dual-Use Items" in the customs declaration remarks section along with the corresponding export control code. For non-controlled items with similar parameters, specifications, or performance metrics, they must state "Not Controlled Items" in the remarks section and provide specific details. Customs authorities will raise legal objections to any incomplete, inaccurate, or questionable information provided, and export shipments will be denied release during the review period.

This announcement will take effect on November 8, 2025, and the Export Control List of Dual-use Items of the People's Republic of China will be updated simultaneously.

Ministry of Commerce, General Administration of Customs

October 9th, 2025