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National Standards of the People's Republic
of China

GB 16487.7—2017

Replace GB 16487.7—2005

Environmental Protection Control Standard
for Imported Solid Wastes as Raw
Materials—Nonferrous Metal Scraps

(Version for Release)

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Foreword

In order to implement the *Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes*, the *Law of the People's Republic of China on the Prevention and Control of Radioactive Pollution* and other applicable laws and regulations, and control the environmental pollution caused by imported nonferrous metal scraps as raw materials, this standard is hereby formulated.

This standard specifies the environmental protection control requirements for imported nonferrous metal scraps.

As one of a series of environmental protection control standards for imported solid wastes, this standard shall be applicable to the administration of import of the nonferrous metal scraps included in the Catalogue of Imported Solid Wastes as Raw Materials.

This standard was first issued in 1996 and first amended in 2005, and it is hereby amended for a second time.

It is hereby amended mainly in the following aspects:

- Names of solid wastes for the administration of import of nonferrous metal scraps were added;
- Requirement on external exposure penetrating radiation dose for imported nonferrous metal scraps was added;
- Control requirement for hazardous wastes was adjusted;
- Control requirement for regular carried-wastes and powdery substance contained therein was tightened; and
- Requirements on inspection were revised.

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials – Nonferrous Metal Scraps (GB 16487.7-2005) shall be abolished as of the effective date of this standard.

This standard was amended under the direction of the Department of Soil Environment Management and the Department of Science, Technology and Standards of the Ministry of Environmental Protection.

Primary drafting organization for this standard: Chinese Research Academy of Environmental Sciences.

This standard was approved by the Ministry of Environmental Protection on December 29, 2017.

This standard shall come into full force and effect on March 1, 2018.

This standard shall be interpreted by the Ministry of Environmental Protection.

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials – Nonferrous Metal Scraps

1. Scope of Application

This standard hereby sets forth the environmental protection control requirements for imported nonferrous metal scraps.

This standard shall be applicable to the administration of import of the nonferrous metal scraps described below, excluding oxides and salt substances of nonferrous metal scraps and mixtures of such oxides and salt substances.

HS Code	Name of Solid Waste	Note
7112911010	Gold wastes and scraps	
7112911090	Gold-plating wastes and scraps (except for those that contain other precious metals)	
7112921000	Platinum and platinum-plating wastes and scraps (except for those that contain other precious metals, mainly used for recovery of platinum)	
7404000090	Other copper wastes and scraps	Excluding metal and electrical appliance scraps, waste wires and cables, and waste electric motors
7503000000	Nickel wastes and scraps	
7602000090	Other aluminum wastes and scraps	Excluding metal and electrical appliance scraps, waste wires and cables, and waste electric motors
7902000000	Zinc wastes and scraps	
8002000000	Tin wastes and scraps	
8101970000	Tungsten wastes and scraps	
8103300000	Tantalum wastes and scraps	
8104200000	Magnesium wastes and scraps	
8106001092	Other unwrought bismuth wastes and scraps	
8108300000	Titanium wastes and scraps	
8109300000	Zirconium wastes and scraps	
8112921010	Unwrought germanium wastes and scraps	
8112922010	Unwrought vanadium wastes and scraps	
8112924010	Niobium wastes and scraps	
8112929011	Unwrought hafnium wastes and scraps	
8112929091	Unwrought gallium and rhenium wastes and scraps	
8113001010	Granular or powdery tungsten carbide wastes and scraps	
8113009010	Other tungsten carbide wastes and scraps, except for granular or powdery ones	

2. Cited Normative Documents

The provisions of the following documents are cited in this standard. In case of any undated citation,

the effective version of such cited normative document shall be applicable to this standard.

GB 5085.1	Identification Standards for Hazardous Wastes	Identification of corrosivity
GB 5085.2	Identification Standards for Hazardous Wastes	Screening test for acute toxicity
GB 5085.3	Identification Standards for Hazardous Wastes	Identification of leaching toxicity
GB 5085.4	Identification Standards for Hazardous Wastes	Identification of flammability
GB 5085.5	Identification Standards for Hazardous Wastes	Identification of reactivity
GB 5085.6	Identification Standards for Hazardous Wastes	Identification for toxic substance content
SN/T 0570	Inspection Procedures for Radioactive Contamination of Imported Wastes as Raw Materials	
SN/T 1791.9	Inspection and Quarantine Procedures for Imported Wastes as Raw Materials – Part 9: Nonferrous Metal Scraps	

National Catalogue of Hazardous Wastes (Order No. 39 issued by Ministry of Environmental Protection, National Development and Reform Commission, and Ministry of Public Security)

3. Terms and Definitions

For purpose of this standard, the following terms and definitions shall apply.

3.1 Carried-waste

Foreign substances introduced into imported nonferrous metal scraps during production, collection, packaging and transportation (excluding packing materials for the imported solid wastes and other substances that need to be used during the transportation process).

4 Control Standards and Requirements

4.1 To control radioactive contamination induced by imported nonferrous metal scraps, the following requirements shall be met:

- a) The nonferrous metal scraps shall not contain any radioactive wastes;
- b) The external exposure penetrating radiation dose rate for the nonferrous metal scraps (including packing material) shall be no more than $+0.25\mu\text{Gy/h}$ greater than the normal natural background radiation level at the place where the port of import is located;
- c) α -ray and β -ray radioactive contamination levels on the surface of the nonferrous metal scraps shall be as follows: the average value of maximum detected level in any portion of 300cm^2 on the surface shall not exceed 0.04Bq/cm^2 for α -ray and 0.4Bq/cm^2 for β -ray; and
- d) The specific activity of non-natural radioactive nuclide in the nonferrous metal scraps shall be less than the threshold values specified in Table 1 below.

Table 1 Threshold Values of Specific Activity of Radioactive Nuclide

Nuclide	Specific Activity (Bq/g)
^{59}Ni	3×10^3
^{63}Ni	3×10^3
^{54}Mn	0.3
^{60}Co	0.3
^{65}Zn	0.3
^{55}Fe	300

⁹⁰ Sr	3
¹³⁴ Cs	0.3
¹³⁷ Cs	0.3
²³⁵ U	0.3
²³⁸ U	0.3
²³⁹ Pu	0.1
²⁴¹ Am	0.3
¹⁵² Eu	0.3
¹⁵⁴ Eu	0.3
⁹⁴ Nb	0.3
β-γ mixture with unknown components	0.3
α mixture with unknown components	0.1

- 4.2 Nonferrous metal scraps shall not contain any explosive arms or ammunitions, such as discarded bombs and shells.
- 4.3 The total weight of the following carried-wastes in nonferrous metal scraps shall be strictly restricted to a level not greater than 0.01% of the weight of the imported nonferrous metal scraps.
- Sealed container;
 - Wastes listed in the *National Catalogue of Hazardous Wastes*; and
 - Other hazardous wastes with one or more hazardous characteristics including corrosivity, toxicity, flammability and reactivity as identified according to the identification standards of GB5085.1-GB5085.6.
- 4.4 In addition to the wastes listed above, the total weight of other carried-wastes (including wood waste, waste paper, waste plastic, waste rubber, waste glass, and powdery substance with a particle size of not more than 2 mm) in nonferrous metal scraps shall be restricted to a level not greater than 1.0% of the total weight of the imported nonferrous metal scraps, out of which the total weight of the carried and contaminated powdery substance (such as dust, sludge, crystal salt, metal oxide, and fiber strands) with a particle size of not more than 2 mm shall not exceed 0.1% of the total weight of the imported nonferrous metal scraps.

5 Inspection

- 5.1 Inspection under this standard shall be carried out by random sampling, where opening, devanning, unpacking/unbaling and sorting shall be carried out for the inspection of imported wastes shipped in containers, open-cabin inspection and arrival inspection shall be carried out for the inspection of imported wastes shipped in bulk by sea, and open-box inspection and arrival inspection shall be carried out for the inspection of imported wastes shipped in bulk by land, which shall be sent to labs for tests when necessary (including specific activity of radioactive nuclide and hazardous characteristics). The results of inspection by random sampling shall serve as the results of the inspection of the whole shipment.
- 5.2 Inspection under Section 4.1 hereof shall be performed in accordance with the provisions of SN/0570.
- 5.3 Inspection under Section 4.3(c) hereof shall be performed according to the methodologies provided in GB 5085.1-GB 5085.6.
- 5.4 Inspection under other sections hereof shall be performed in accordance with the provisions of SN/T 1791.9.