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National Standard of the People's Republic of
China

GB 16487.6-2005
Replace GB 16487.6-1996

进口可用作原料的固体废物环境保护控制 标准—废钢铁

Environmental protection control standard for imported solid wastes
as raw materials
—Waste and scrap of iron and steel

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Issued by State Environmental Protection Administration of China (SEPA)
General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China (AQSIQ).

Foreword

This standard is prepared for the purpose of implementing “Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste”, in

order to prevent the import of solid wastes that cannot be used as raw materials, standardize the import examination and licensing of solid wastes as raw materials and control the environmental pollution caused by waste and scrap of iron and steel as raw materials.

As one of environmental protection control standards for imported solid wastes, this standard shall be applicable to the import administration of waste and scrap of iron and steel (imported solid wastes as raw materials).

This version of standard made many revisions to GB16487.6-1996, such as the name, foreword, scope, cited standards, definition, control requirements, etc. In regard to the control requirements, we mainly revised the control requirements for the radioactivity, and increased the categories of carried-wastes that are forbidden to import.

According to relevant law, this standard is enforceable.

This standard was proposed by the Department of Science, Technology and Standard, SEPA.

This standard was drafted by Chinese Research Academy of Environmental Sciences.

This standard was first issued on July 29, 1996.

This standard was approved by SEPA on November 9, 2005.

This standard shall be implemented as of February 1, 2006.

SEPA shall be responsible for interpreting this standard.

Environmental protection control standard for imported solid wastes as raw materials—Waste and scrap of iron and steel

1. Scope

This standard hereby sets forth the environmental protection control requirements for imported waste and scrap of iron and steel.

This standard shall be applicable to the import administration of waste and scrap of iron and steel with following customs commodity numbers.

| Customs commodity number | Name of solid wastes |
|--------------------------|----------------------|
|--------------------------|----------------------|

| | |
|------------|--|
| 7204100000 | Waste and scrap of cast iron |
| 7204210000 | Waste and scrap of stainless steel |
| 7204290000 | Waste and scrap of other alloy steel |
| 7204300000 | Waste and scrap of tinned iron or steel |
| 7204410000 | Waste and scrap of iron or steel generated during lathing, planing, milling grinding, sawing, filing, shearing and punching processes, regardless of whether they are in bundles |
| 7204490090 | Other waste and scrap of iron or steel |
| 7204500000 | Remelting scrap ingots of iron or steel (including scrap machine tools, scrap engines and scrap locomotives, etc.) |

2. Cited normative documents

The clauses in the following documents that were cited by this standard became clauses of this standard. For cited documents with a date, all their subsequent modifications or revisions do not apply to this standard. However, parties having reached an agreement based on cited standards with a date are encouraged to study whether the latest versions of the cited documents with a date are applicable. For cited documents without a date, the latest versions apply to this standard.

- GB 5085 Identification standard for hazardous wastes
- GB 13015 Pollution control standard for wastes containing polychlorinated biphenyls
- SN 0570 Inspection rules for the radioactive contamination of imported wastes as raw materials
- SN 0581 Inspection and quarantine rules for imported wastes as raw materials—waste and scrap of iron and steel
- National Catalogue of Hazardous Wastes
- Catalogue of Hazardous Chemicals
- Catalogue of Hypertoxic Chemicals

3 Definitions

This standard shall use the following definitions:

3.1 Carried-waste shall refer to substances mixed in imported waste and scrap of iron and steel during the production, collection, packing and transportation processes (exclusive of packing materials for the imported waste and scrap of iron and steel and other substances that need to be used during the transportation process).

3.2 Hazardous chemical substance shall refer to chemicals listed in the “Catalogue of Hazardous Chemicals” and the “Catalogue of Hypertoxic Chemicals” issued by concerned department of the People’s Republic of China.

4 Standards and requirements for control

4.1 Waste and scrap of iron and steel shall be prohibited from bringing in following

carried-wastes (exclusive of wastes listed in Article 4.4).

- (1) Radioactive wastes;
- (2) Explosive arms and ammunitions such as discarded bomb and shell, etc.;
- (3) Wastes containing polychlorinated biphenyls
- (4) Substances identified as hazardous wastes according to GB5085;
- (5) Other wastes listed in “National Catalogue of Hazardous Wastes”.

4.2 α and β radioactive contamination limit to the surface of the waste and scrap of iron and steel: For any 300 cm² of the surface area, the average α specific activity value shall not exceed 0.04Bq/cm² and that of β shall not exceed 0.4 Bq/cm².

4.3 The specific activity value of the radionuclide in the waste and scrap of iron and steel shall not exceed the limits specified in List 1.

List 1 Specific activity limits of the radionuclide

| Radionuclide | Specific activity (Bq/g) |
|------------------------------------|--------------------------|
| ⁵⁹ Ni | $\frac{3 \times 10}{3}$ |
| ⁶³ Ni | $\frac{3 \times 10}{3}$ |
| ⁵⁴ Mn | 3 |
| ⁶⁰ C o | 3 |
| ⁶⁵ Zn | 3 |
| ⁵⁵ F e | 300 |
| ⁹⁰ Sr, | 3 |
| ¹³⁴ C s | 3 |
| ¹³⁷ C s | 3 |
| ²³⁵ U | 3 |
| ²³⁸ U | 3 |
| ²³⁹ P u | 1 |
| ²⁴¹ Am | 3 |
| ¹⁵² E u | 3 |
| ¹⁵⁴ E u | 3 |
| ⁹⁴ Nb | 3 |
| Unknown β - γ mixture | 3 |
| Unknown α mixture | 1 |

4.4 Following carried-wastes shall be strictly restricted and their total weight shall not exceed 0.01%of the weight of waste and scrap of iron and steel.

- (1) Asbestos waste or waste containing asbestos;
- (2) Sensitization material waste;
- (3) Sealed container;
- (4) Other hazardous wastes that can't avoid being mixed into the imported waste and scrap of iron and steel during the production, collection and transportation processes.

4.5 In addition to the wastes listed above, other carried-wastes (such as waste wood, waste paper, waste glass, waste plastic, waste rubber, stripped rust, etc.) shall be restricted and their total weight shall not exceed 2% of the weight of the imported waste and scrap of iron and steel.

4.6 Containers, pipes, and their waste and crushed chips that once contained liquids and semi-solid chemical substances can only be imported after being washed clean; the importer must provide inspection authorities with main composition of hazardous chemical substances that they used to contain or convey.

5 Inspections

5.1 Inspections under Article 4.1(3) of this standard shall be performed in accordance with the provisions of GB13015.

5.2 Inspections under Article 4.1(4) and Article 4.1(5) of this standard shall be performed in accordance with the provisions of GB5085.

5.3 Inspections under Article 4.1(1), Article 4.2 and Article 4.3 of this standard shall be performed in accordance with the provisions of SN0570.

5.4 Inspections of other terms under this standard shall be performed in accordance with the provisions of SN0581.