

ICS 13.030.50

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National Standards of the People's Republic of China

GB 16487.12—2017

Replace GB 16487.12—2005

进口可用作原料的固体废物环境保护控制 标准—废塑料

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials—Waste and Scrap of Plastics

(Published Version)

This E-version is a published version. Please use the version published by
China Environmental Science Press as the final version of the standard.

Issued on 12-29-2017

Effective on 03-01-2018

Issued
by

**Ministry of Environmental Protection
and
General Administration of Quality
Supervision, Inspection and Quarantine
of the People's Republic of China**

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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, strictly restrict the import of solid wastes, and control the environmental pollution caused by imported waste and scrap of plastics as raw materials, this standard is hereby formulated.

This standard specifies the environmental protection control requirements for imported waste and scrap of plastics.

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 waste and scrap of plastics 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:

- The definition of waste and scrap of plastics was revised;
- Requirement on external exposure penetrating radiation dose for imported waste and scrap of plastics was added;
- Control requirement for hazardous wastes was adjusted;
- Control requirement for regular carried-wastes was tightened; and
- Requirements on inspection were revised.

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials –Waste and Scrap of Plastics (GB 16487.12-2005) shall be abolished as of the effective date of this standard.

This standard was amended under the direction of the Department of Environmental Management of Soil and the Department of Science and Technology 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 12/29/2017.

This standard shall come into full force and effect on 03/01/2018.

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

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials –Waste and Scrap of Plastics

1. Scope of Application

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

This standard shall be applicable to the administration of import of the waste and scrap of plastics included in the *Catalogue of Solid Wastes Used as Raw Materials under Restricted Import* as listed below.

HS Code	Name of Solid Waste
3915100000	Waste and scrap ethylene polymers and remnants
3915200000	Waste and scrap vinyl benzene polymers and remnants
3915300000	Waste and scrap chloroethylene polymers and remnants
3915901000	Waste and scrap polyethylene terephthalate and remnants
3915909000	Other waste and scrap plastics and remnants

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 1791.1	Inspection and Quarantine Procedures for Imported Wastes as Raw Materials – Part 1: Waste and Scrap of Plastics	

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

Catalogue of Solid Wastes Used as Raw Materials under Restricted Import (Announcement No. 39 in 2017 issued by Ministry of Environmental Protection, Ministry of Commerce, National Development and Reform Commission, General Administration of Customs, and General Administration of Quality Supervision, Inspection and Quarantine)

3. Terms and Definitions

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

3.1 Waste and scrap of plastics

As used herein, “waste and scrap of plastics” shall refer to the thermoplastic remnant materials, leftover materials, and inferior products produced in the manufacture of plastics and processing of plastic products.

3.2 Carried-waste

Foreign substances introduced into imported waste and scrap of plastics during production, collection, packaging and transportation (excluding packing materials for the imported waste and scrap of plastics 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 waste and scrap of plastics, the following requirements shall be met:

- a) The waste and scrap of plastics shall not contain any radioactive wastes;
- b) The external exposure penetrating radiation dose rate for the waste and scrap of plastics (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 waste and scrap of plastics 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 radioactive nuclide in the waste and scrap of plastics 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	3×10^5
^{63}Ni	3×10^5
^{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 Waste and scrap of plastics 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 waste and scrap of plastics shall be strictly restricted

to a level not greater than 0.01% of the weight of the imported waste and scrap of plastics.

- a) Burnt or partially burnt waste and scrap of plastics, and those contaminated by fire extinguishing agent;
- b) Used and intact plastic container;
- c) Sealed container;
- d) Wastes listed in the *National Catalogue of Hazardous Wastes*; and
- e) 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 waste paper, wood scrap, waste metal, waste glass, waste rubber/tire, thermosetting plastics, other plastics containing metal coating, and uncompressed waste foamed plastics) in imported waste and scrap of plastics shall be restricted to a level not greater than 0.5% of the weight of the imported waste and scrap of plastics.

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/T 0570.
- 5.3 Inspection under Section 4.3(e) 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 1791.1.