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National Standards of the People's Republic of China

GB 16487.4—2017
Replacing GB 16487.4—2005

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

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Introduction

In order to implement the Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes, and the Law of the People's Republic of China on the Prevention and Control of Radioactive Contamination and other applicable laws and regulations, this Standard has been developed to control the environmental pollution caused by waste and scrap of paper or paperboard.

This Standard sets out the environmental protection control requirements for imported waste and scrap of paper or paperboard.

This Standard is one of a series of environmental protection control standards for imported solid wastes, it applies to the management of import of the waste and scrap of paper or paperboard included in the Catalogue of Imported Solid Wastes as Raw Materials.

This Standard was first published in 1996, the first revision was in 2005, this is the second revision.

The main aspects of this revision are:

- increasing requirements on external exposure penetrating radiation dose for imported waste paper;
- adjusted hazardous waste control requirements;
- tightened control requirements for carried-wastes; and
- revised inspection requirements.

Environmental Protection Control Standard for Imported Solid Wastes as Raw Materials – Waste and Scrap of Paper or Paperboard (GB 16487.4-2005) shall be repealed from the effective date of this Standard.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 Ministry of Environmental Protection approved this Standard on 29-12-2017.

This effective date of this Standard is 01-03-2018.

The Ministry of Environmental Protection is responsible for the interpretation of this Standard.

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

1. Scope of Application

This standard sets out the environmental protection control requirements for imported waste and scrap of paper or paperboard (“Imported Waste Paper”).

This standard shall be applicable to the management of the import of waste paper described below.

HS Code	Name of Solid Waste
4707100000	Recycled (waste and scrap) unbleached kraft, corrugated paper or paperboard
4707200000	Recycled (waste and scrap) paper and paperboard made from bleached chemical wood pulp (without mass dyeing)
4707300000	Recycled (waste and scrap) paper and paperboard made from mechanical wood pulp (such as waste newspapers, magazines and similar printed materials)

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 that 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 1791.13	Inspection and Quarantine Procedures for Imported Wastes as Raw Materials – Part 13: Waste and Scrap of Paper or Paperboard	
	<i>National Catalogue of Hazardous Wastes</i> (Order No. 39 issued by Ministry of Environmental Protection, National Development and Reform Commission, and Ministry of Public Security)	

3. Terms and Definitions

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

3.1 Inclusions “Carried-waste”

Foreign substances introduced into Imported Waste Paper during production, collection, packaging and transportation (excluding packing materials for the Imported Waste Paper and other materials that need to be used during the transportation process).

4 Control Standards and Requirements

4.1 To control radioactive contamination from imported waste paper, the following requirements shall be met:

- a) The imported waste paper shall not contain any radioactive substances;
- b) The external exposure penetrating radiation dose rate from the imported waste paper (including packing material) shall not exceed the normal natural background radiation level at the location of the port of import by more than +0.25μGy/h;

c) the average value of maximum detected level of α -ray and β -ray radioactive contamination in any portion of 300cm² on the surface of the imported waste paper shall not exceed 0.04Bq/cm² for α -ray and 0.4Bq/cm² for β -ray; and

d) The specific activity of radioactive nuclides in the imported waste paper shall be less than the threshold values specified in Table 1 below.

Table 1 Threshold Values of Specific Activity of Radioactive Nuclides

Nuclide	Specific Activity (Bq/g)
Ni-59	3x10 ³
Ni-63	3x10 ³
Mn-54	0.3
Co-60	0.3
Zn-65	0.3
Fe-55	300
Sr-90	3
Cs-134	0.3
Cs-137	0.3
U-235	0.3
U-238	0.3
Pu-239	0.1
Am-241	0.3
Eu-152	0.3
Eu-154	0.3
Nb-94	0.3
β - γ mixture with unknown components	0.3
α mixture with unknown components	0.1

4.2 Imported waste paper shall not contain any explosive munitions, such as discarded bombs and artillery shells.

4.3 The total weight of the following carried-wastes in imported waste paper shall be strictly restricted to a level not greater than 0.01% of the weight of the imported waste and scrap of paper:

- a) imported waste paper that is burnt or partially burnt, or contaminated by a fire extinguishing agent;
- b) sealed containers;
- c) wastes listed in the National Catalogue of Hazardous Wastes; and
- d) all other hazardous wastes with one or more hazardous characteristics such as: corrosivity; toxicity; flammability; and reactivity identified according to the Identification Standards of GB5085.1-GB5085.6.

4.4 In addition to the wastes listed in the preceding articles, other carried-wastes (including wood waste, scrap metal, waste glass, waste plastics, waste rubber, waste textiles, waste absorbents, aluminium-plastic composite packaging, thermosensitive paper, asphalt-coated moisture-proof paper, self-adhesive paper, wallpaper, waxed paper, oiled paper, impregnated paper, silicone oil paper, carbon paper and other wastes) should not exceed 0.5% of the total weight of the imported waste paper.

5 Inspection

5.1 Inspection under this Standard shall be carried out by random sampling, where opening and emptying containers, unpacking/unbaling and sorting shall be carried out for the inspection of imported wastes shipped in containers. Open inspection and inspection on arrival, on landing, shall be carried out for the inspection of imported wastes shipped in bulk by sea. Open container inspection and inspection on arrival shall be carried out for the inspection of imported wastes shipped in bulk by land. If necessary samples shall be sent to laboratories for tests (including tests of specific activity of radioactive nuclides and of 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 above shall be performed in accordance with the provisions of SN/T 0570.

5.3 Inspection under Section 4.3(d) above shall be performed according to the methodologies provided in GB 5085.1-GB 5085.6.

5.4 Inspection under other sections of this Standard shall be performed in accordance with SN/T 1791.13.