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# 中华人民共和国国家标准

National Standard of the People's Republic of  
China

GB 16487.10-2005  
Replace GB 16487.10-1996

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## 进口可用作原料的固体废物环境保护控制 标准—废五金电器

Environmental protection control standard for imported solid wastes  
as raw materials  
—Metal and electrical appliance scraps

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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 metal and electrical appliance scraps as raw materials.

As one of environmental protection control standards for imported solid wastes, this standard shall be applicable to the import administration of metal and electrical appliance scraps (imported solid wastes as raw materials).

This version of standard made many revisions to GB16487.10-1996, 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 carried-wastes, 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—Metal and electrical appliance scraps

### **1. Scope**

This standard hereby sets forth the environmental protection control requirements for imported metal and electrical appliance scraps.

This standard shall be applicable to the import administration of metal and electrical

appliance scraps (including leftover materials, inferior products and non-conforming products produced in processing metal and electrical appliances) with following customs commodity numbers.

Customs commodity number	Name of solid wastes
7204490020	Metal and electrical appliance scraps mainly for the recovery of iron and steel
7404000010	Metal and electrical appliance scraps mainly for the recovery of copper
7602000010	Metal and electrical appliance scraps mainly for the recovery of aluminum

## 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 0579 Inspection and quarantine rules for imported wastes as raw materials—metal and electrical scraps  
National Catalogue of Hazardous Wastes

## 3 Definitions

This standard shall use the following definitions:

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

## 4 Standards and requirements for control

4.1 Metal and electrical appliance scraps 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) Transformer, ballast and compressor with insulating oil not removed;
- (4) Wastes containing polychlorinated biphenyls
- (5) Substances identified as hazardous wastes according to GB5085;
- (6) Other wastes listed in “National Catalogue of Hazardous Wastes”.

4.2  $\alpha$  and  $\beta$  radioactive contamination limit to the surface of the metal and electrical appliance scraps: For any  $300 \text{ cm}^2$  of the surface area, the average  $\alpha$  specific activity value shall not exceed  $0.04 \text{ Bq/cm}^2$  and that of  $\beta$  shall not exceed  $0.4 \text{ Bq/cm}^2$ .

4.3 The specific activity value of the radionuclide in the metal and electrical appliance scraps shall not exceed the limits specified in List 1.

List 1 Specific activity limits of the radionuclide

Radionuclide	Specific activity (Bq/g)
$^{59}\text{Ni}$	$3 \times 10^3$
$^{63}\text{Ni}$	$3 \times 10^3$
$^{54}\text{Mn}$	3
$^{60}\text{Co}$	3
$^{65}\text{Zn}$	3
$^{55}\text{Fe}$	300
$^{90}\text{Sr}$	3
$^{134}\text{Cs}$	3
$^{137}\text{Cs}$	3
$^{235}\text{U}$	3
$^{238}\text{U}$	3
$^{239}\text{Pu}$	1
$^{241}\text{Am}$	3
$^{152}\text{Eu}$	3
$^{154}\text{Eu}$	3
$^{94}\text{Nb}$	3
Unknown $\beta$ - $\gamma$ mixture	3
Unknown $\alpha$ mixture	1

4.4 Following carried-wastes shall be strictly restricted and their total weight shall not exceed 0.01% of the weight of metal and electrical appliance scraps.

- (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, stripped rust, waste and scrap mechanical and electrical products, etc.) shall be restricted and their total weight shall not exceed 2% of the weight of the imported metal and electrical appliance scraps.

4.6 The recovered materials shall exceed 80% of the total weight of the imported metal and electrical scraps, and usable metal shall exceed 60% of the total weight the imported metal and electric scraps.

## **5 Inspections**

5.1 Inspections under Article 4.1(4) of this standard shall be performed in accordance with the provisions of GB13015.

5.2 Inspections under Article 4.1(5) and Article 4.1(6) of this standard shall be performed in accordance with the provisions of GB5085.

5.3 Inspections under Article 4.1(1) and Article 4.2 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 SN0579.