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YS

**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 257-2009

Replacing YS/T 257-1998

Indium ingots

铟锭

(English Translation)

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Foreword

This standard replaces YS/T 257-1998 "indium".

Compared with YS/T 257-1998, this standard has the following changes.

- the original standard of the three grades were modified on the indium and impurity components have more stringent requirements;
- added a "In980" product grades;
- increase the indium ingot weight 1000g and 200g two product specifications;
- increase the production of sample-like sample;
- the provisions of the inspection project.

This standard by the National Nonferrous Metals Standardization Technical Committee proposed and centralized.

1 Scope

This standard specifies the requirements, test methods, inspection rules and marking, packaging, transportation and storage of indium ingots.

This standard applies to zinc, lead, copper, tin and other smelting production process of comprehensive recovery of refined metal indium ingot, also applies to other indium waste Recycling of refined indium ingots in the material.

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

The Method and Method of Determining the Limit Value of GB/T 1250 GB/T 8170 numerical revision rule Method for chemical analysis of indium ingot YS/T 276 (all parts)

3.1 Product Classification

Indium ingot is divided into three grades according to the chemical composition. In99995, In9999, In980.

3.2 Chemical composition

3.2.1

The chemical composition of indium ingot shall comply with the provisions of Table 1.

Table 1 Chemical composition of indium ingot

Grade

Grade	chemical composition/% in, not less than	Impurity content, no more than	Cu	Pb	Zn	Cd	Fe	Tl
In99995	99.995	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0010
In9999	99.99	0.0005	0.001	0.0015	0.0015	0.0008	0.001	0.0015
In980	98.0	0.15	0.10	0.15	0.15	0.05	0.2	1.5

3.2.2

In99995, In9999 two grades Indium ingot content of 100% minus the sum of the impurities listed in Table 1. In980 grade indium the content of the ingot is a direct measure.

3.2.3

indium ingot impurities after the end of the value of the revision, according to GB/T 8170 in the relevant provisions of the revised value of the decision, according to GB/T 1250 of the relevant provisions.

3.3 Surface quality

Indium ingot surface should be smooth, clean and shiny, do not allow slag, inclusions, other attachments or contaminants traces.

3.4 Specifications

Indium ingot was rectangular or rectangular trapezoidal, ingot weight were. $2000\text{g} \pm 100\text{g}$, $1000\text{g} \pm 100\text{g}$, $500\text{g} \pm 50\text{g}$ and $200\text{g} \pm 20\text{g}$ four kinds.

3.5 Other

Such as the chemical composition of indium ingot and surface quality have other requirements, agreed by the supply and demand sides.