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GB/T 469-2013

Replacing GB/T 469-2005

Lead Ingots

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 469-2005, *Lead Ingots*.

Compared with 469-2005, the main technical changes of this Standard are as follows:

- adds the requirements for impurities cadmium and nickel in designation Pb99.994, which are not greater than 0.000 2% and 0.0002% respectively; changes the content of antimony from 0.000 8% to 0.000 7%; and
- deletes colour coding.

This Standard modifies and adopts BS EN 12659:1999, *Lead and Lead Alloys – Lead*.

Compared with BS EN 12659:1999, the main technical changes of this Standard are as follows:

- adds designation Pb99.994;
- adds the requirements for impurity iron in the impurity compositions of all designations. The iron contents of 4 designations are not greater than 0.001 0%, 0.001 0%, 0.002 0% and 0.002 0%; and
- changes the impurity Cu content in designation Pb99.990 from 0.000 5% to 0.001%.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee on Nonferrous Metals (SAC/TC 243).

The responsible drafting organizations of this Standard: Zhuzhou Smelter Group Co., Ltd., Henan Yuguang Gold and Lead Co., Ltd. and Yunnan Chihong Zn & Ge Co., Ltd.

The contributory drafting organizations of this Standard: Shenzhen Zhongjin Lingnan Nonfermet Co., Ltd., Hunan Shuikoushan Nonferrous Metals Group Co., Ltd., Jiangsu Chunxing Alloys (Group) Co., Ltd. and Hubei Jinyang Metallurgical Incorporated Co., Ltd.

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The editions of the standard replaced by this Standard are as follows:

- GB/T 469-2005, GB/T 469-1995, GB/T 469-1983 and GB/T 469-1964.

Lead Ingots

1 Application Scope

This Standard specifies the requirements, test methods, inspection rules and packaging, marking, transportation and quality certification for lead ingots.

This Standard applies to lead ingots manufactured by electrolytic process or pyro-refining.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to this Standard.

GB/T 4103 (all parts), *Methods for Chemical Analysis of Lead and Lead Alloys*

GB/T 8170, *Rules of Rounding off for Numerical Values and Expression and Judgement of Limiting Values*

3 Requirements

3.1 Product classification

Lead ingots are classified into 5 designations in accordance with chemical compositions: Pb99.994, Pb99.990, Pb99.985, Pb99.970 and Pb99.940.

3.2 Chemical composition

3.2.1 The chemical composition of lead ingots shall conform to the requirements given in Table 1.

5.5.2 When the physical specifications and surface conditions of lead ingots do not conform to this Standard or contract (or indent), then it is determined to be rejectable by batch.

5.5.3 The rounding of inspection results of impurity elements and the expression and judgment of rounded numerical values are specified in GB/T 8170.

6 Packaging, Marking, Transportation and Storage and Quality Certification

6.1 Packaging

6.1.1 Small lead ingots shall be bundled with corrosion-resistant packaging string of appropriate strength. Large lead ingots are delivered without packaging.

6.1.2 When the purchaser has any special requirement for the packaging of lead ingots, it shall be agreed by the supplier and the purchaser.

6.2 Marking

6.2.1 Each lead ingot shall be marked with trademark and batch number by casting or stamping.

6.2.2 Each bundle of lead ingots shall be provided with marking which is legible and indelible, indicating manufacturer name, product name, designation, batch number and net weight.

6.3 Transportation and storage

6.3.1 Lead ingots shall be shipped by a transportation means without corrosive materials and protected from rain.

6.3.2 Lead ingots shall be stored in a wareroom which is well-ventilated, dry and free from corrosive materials.

6.3.3 During the transportation and storage of lead ingots, the white, grayish white and yellowish white film produced on the natural oxidation surface shall not be the basis for scrapping.

6.4 Quality certificate

Each batch of lead ingots shall be accompanied by a product quality certificate (compliance certificate), indicating:

- a) manufacturer's name and trademark, address and telephone or fax number;
- b) product name and designation;

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