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Lead ingots

铅锭

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Lead ingots

1 Scope

This document stipulates the classification, technical requirements, test methods, inspection rules, marking, packaging, transportation, storage, accompanying documents, order form content of lead ingots.

This document applies to lead ingots, which are produced by electrolytic refining.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, for dated reference documents, only the version corresponding to the date applies to this document; for undated reference documents, the latest version (including all amendments) applies to this document.

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 Terms and definitions

There are no terms or definitions to be defined in this document.

4 Categories

Lead ingots are divided into 2 designations according to their chemical composition: Pb99.996 and Pb99.994.

5 Technical requirements

5.1 Chemical composition

5.1.1 The chemical composition of lead ingots shall comply with the requirements in Table 1.

7 Inspection rules

7.1 Inspection and acceptance

7.1.1 Lead ingots shall be inspected by the supplier or a third-party quality supervision department, to ensure that the product quality complies with the provisions of this document; meanwhile the accompanying documents shall be filled in.

7.1.2 The purchaser may inspect the received products, in accordance with the provisions of this document. If the inspection results are inconsistent with the provisions of this document or the requirements of the order form, it shall be submitted to the supplier, within 30 days from the date of receipt of the product, to be settled through negotiation between the supplier and the buyer. If arbitration is required, arbitration sampling will be carried out jointly by the supplier and the buyer, at the buyer's premises.

7.2 Group batching

7.2.1 Lead ingots shall be submitted for inspection in batches. Each batch shall be composed of products of the same designation and furnace number; the weight of each batch shall not exceed 150 t.

7.2.2 According to the requirements of the buyer, multiple production batches of the same designation are allowed to form an inspection batch. The batch size is as required by the buyer.

7.3 Inspection items

Each batch of lead ingots shall be inspected for chemical composition analysis, physical specifications, surface quality.

7.4 Sampling and specimen preparation

7.4.1 Production sampling

The specimens, which are used by the supplier for chemical composition analysis, can be taken from the liquid metal during casting or can be taken by other methods.

7.4.2 Product sampling and specimen preparation

7.4.2.1 Collection and preparation of chemical composition specimens of lead ingots

7.4.2.1.1 Sampling quantity: Randomly select 2% of the number of lead ingots as sample ingots. The total number of sample ingots shall be a multiple of 6, to facilitate grouping. If there are less than 6 ingots after grouping, they shall be made up from lead ingots and shall not be discarded.

judgment of the rounded values shall be carried out, in accordance with the provisions of GB/T 8170.

7.5.2 If the chemical composition analysis results of lead ingots are inconsistent with the provisions of this document or the requirements of the order form, they will be deemed unqualified.

7.5.3 If the physical specifications and surface quality of the lead ingot are inconsistent with the provisions of this document or the requirements of the order form, the ingot will be deemed to be unqualified.

8 Marking, packaging, transportation, storage, accompanying documents

8.1 Marking

8.1.1 The trademark and batch number shall be cast or printed on each lead ingot.

8.1.2 Each bundle of lead ingots shall have an eye-catching mark, that is not easy to fall off, indicating the name of the manufacturer, product name, designation, batch number, net weight.

8.2 Packaging

8.2.1 Small lead ingots shall be bundled and packed with packaging tapes of corresponding strength and not easy to rust. Large lead ingots are supplied as bare ingots.

8.2.2 If the buyer has special requirements for the packaging of lead ingots, they can be negotiated by the supplier and the buyer.

8.3 Transport and storage

8.3.1 Lead ingots shall be transported by means of transportation without corrosive substances, to prevent them from being exposed to rain.

8.3.2 Lead ingots shall be stored in a ventilated, dry, corrosive-free warehouse.

8.3.3 During the transportation and storage process of lead ingots, the white, gray-white or yellow-white film formed on the surface due to natural oxidation shall not be used as a basis for scrapping.

8.4 Accompanying documents

Each batch of lead ingots shall be accompanied by accompanying documents stating:

- a) Supplier's name and trademark, address, telephone number or fax;

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Contact: Wayne Zheng, Sales@ChineseStandard.net

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