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Neodymium Metal

金属钕

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Neodymium Metal

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation and storage of neodymium metal.

This Standard is applicable to neodymium metal, which is produced through molten salt electrolysis method using neodymium oxide as the raw material, and is mainly used as a raw material for permanent magnetic materials, for example, neodymium iron boron, and an additive for rare earth functional materials, for example, rare earth magnesium alloys.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

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

GB/T 12690 (all parts) Chemical Analysis Methods for Non-rare Earth Impurities of Rare Earth Metals and Their Oxides

GB/T 14635 Rare Earth Metals and Their Compounds - Determination of Total Rare Earth Content

GB/T 18115.4 Chemical Analysis Methods of Rare Earth Impurities in Rare Earth Metals and Their Oxides - Part 4: Determination of Lanthanum, Cerium, Praseodymium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium, Lutetium and Yttrium Contents

3 Requirements

3.1 Chemical Composition

The chemical composition of the product shall comply with the stipulations of Table 1. If the demand-side has special requirements for the product, the demand-side and the supply-side may have further negotiations.

a lid and seal it for storage.

5.5 Determination of Inspection Results

5.5.1 When the results of the arbitration analysis of chemical composition are inconsistent with the stipulations of this Standard, then, take a double size of ingot specimens from this batch of products for a repeated test of the disqualified items. If there is still one disqualified item, then, the batch of products shall be determined as disqualified.

5.5.2 When the results of the appearance inspection are inconsistent with the stipulations of this Standard, then, the batch of products shall be directly determined as disqualified.

6 Marking, Packaging, Transportation, Storage and Quality Certificate

6.1 Marking and Packaging

6.1.1 There shall be a non-fading mark on the outside of the packaging barrel (box), indicating: the supply-side's name, product name, designation, batch No., net weight, gross weight, exit-factory date, and signs or words like "moisture-proof".

6.1.2 The products shall be sealed and packed into iron drums with anti-oxidation measures. If the demand-side has special requirements for the packaging, they shall be determined by the demand-side and the supply-side through negotiation.

6.2 Transportation and Storage

During transportation and storage, the products shall be rigorously protected from moisture. They need to be stored in a dry place and shall not be placed in the open air.

6.3 Quality Certificate

Each batch of products shall be attached with a quality certificate, indicating:

- a) Supply-side's name;
- b) Product name;
- c) Designation, batch No., net weight, gross weight and number of pieces;
- d) The results of each analysis and inspection, and the seal of the supply-side's quality inspection department;
- e) Serial No. of this Standard;
- f) Date of inspection;

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