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Rare earth carbonate of ion-absorbed type rare earth ore

离子型稀土矿碳酸稀土

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Rare earth carbonate of ion-absorbed type rare earth ore

1 Scope

This Standard specifies the requirements, test methods, inspection rules and packaging, marking, transportation, storage and quality certificates of rare earth carbonate of ion-absorbed type rare earth ore.

This Standard applies to rare earth carbonate of ion-absorbed type rare earth ore, which are mainly used as raw materials for grouping rare earths or separating single rare earth compounds.

2 Normative references

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

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 14635 Rare earth metals and their compounds - Determination of total rare earth content

GB/T 16484.12 Chemical analysis methods of rare earth chloride and light rare earth carbonate - Part 12: Determination of sulfate radical

GB/T 16484.18 Chemical analysis methods of rare earth chloride and light rare earth carbonate - Part 18: Determination of ignition loss content in light rare earth carbonate - Gravimetry

GB/T 16484.21 Chemical analysis methods of rare earth chloride and light rare earth carbonate - Part 21: Determination of iron oxide content - 1,10-phenanthroline spectrophotometry

GB/T 17803 Designation system for rare earth products

GB/T 18882.1 Chemical analysis methods of mixed rare earth oxide of ion-absorbed type RE ore - Determination of fifteen REO relative content

GB/T 18882.2 Chemical analysis methods for mixed rare earth oxide of ion-absorbed type RE ore - Determination of aluminum oxide content

4.1.4 The analysis method of Al_2O_3 in products shall be carried out in accordance with the provisions of GB/T 18882.2.

4.1.5 The analysis method of SO_4^{2-} in products shall be carried out with reference to the provisions of GB/T 16484.12.

4.1.6 The analysis method of loss on ignition in products shall be carried out in accordance with the provisions of GB/T 16484.18.

4.1.7 The analysis of SiO_2 and ammonia nitrogen in products shall be carried out in accordance with the method negotiated by the supplier and purchaser.

4.2 Rounding off of numerical values

Carry out in accordance with the provisions of GB/T 8170.

4.3 Product appearance

Check visually.

5 Inspection rules

5.1 Inspection and acceptance

5.1.1 The products shall be inspected by the supplier's quality inspection department. It shall ensure that the products comply with the provisions of this Standard and fill in product quality certificates.

5.1.2 The purchaser shall inspect the received products. If the inspection results are inconsistent with the provisions of this Standard, it shall report it to the supplier within 2 months from the date of receipt of the products, and the supplier and purchaser will negotiate and resolve. If arbitration is needed, an organization recognized by both parties can be entrusted to conduct the arbitration, and samples can be taken jointly at the purchaser's.

5.2 Batching

The products shall be submitted for inspection in batches, each batch shall be composed of products of the same designation, and the net weight of each batch shall not exceed 40 t.

5.3 Inspection items

Each batch of products shall be inspected for chemical composition and appearance.

5.4 Sampling and sample preparation

The arbitration sampling of chemical composition is taken from each bag in each batch. The sampling volume of each bag in each batch is 100 g ~ 200 g. After thoroughly mixing the sample, quickly reduce it to the required amount of sample and put it into the sample bag and seal it.

5.5 Judgment of inspection results

5.5.1 If the chemical composition arbitration analysis results are inconsistent with the provisions of this Standard, double samples will be taken from the batch of products to conduct repeated tests on the unqualified items. If there are still unqualified test results, the batch of products will be judged to be unqualified.

5.5.2 If the appearance inspection results are inconsistent with the provisions of this Standard, the batch of products will be directly judged to be unqualified.

6 Marking, packaging, transportation, storage and quality certificates

6.1 Marking and packaging

6.1.1 Indicate on the outside of each bag:

- a) name of supplier;
- b) product name and designation;
- c) batch number;
- d) net weight, gross weight;
- e) date of manufacture;
- f) “RAINPROOF” marking or words.

6.1.2 The inner packaging of products is a plastic bag with a seal, and the outer packaging is a woven bag with a seal. The net weight of each bag is 40 kg. If the purchaser has special requirements, the supplier and purchaser will negotiate separately.

6.2 Transportation and storage

The products must be protected from rain during transportation. They must be stored in a dry place and must not be stacked in the open.

6.3 Quality certificates

Each batch of products shall be accompanied by a quality certificate, indicating:

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