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RARE EARTH INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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XB/T 104-2015

Replacing XB/T 104-2010

Monazite Concentrate

独居石精矿

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Monazite Concentrate

1 Scope

This Standard specifies the requirements, test methods, inspection rules and marking, packaging, transportation, storage and quality certificates for monazite concentrate.

This Standard applies to dry monazite concentrate obtained from placer beneficiation and enrichment, which is used for the extraction of rare earth metals and their compounds and the extraction of thorium.

2 Normative References

The following documents are essential to the application of this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

GBZ 139 Radiological protection standards for the production places of rare-earth elements

GB 5750.13 Standard examination methods for drinking water - Radiological parameters

GB 11806 Regulations for the safe transport of radioactive material

GB 18871 Basic Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources

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

GB/T 18114 (all parts) Chemical analysis methods of rare earth concentrates

3 Requirements

3.1 Chemical composition

The chemical composition of the product shall comply with the provisions in Table 1. If the purchaser has special requirements, the supplier and purchaser can negotiate separately.

6 Marking, Packaging, Transportation, Storage and Quality Certificate

6.1 Marking and packaging

6.1.1 There shall be a color-fast and obvious mark on the outside of the packaging barrel (pack) stating:

- a) Name of supplier (when the supplier is a non-production enterprise, the name of the mining manufacturer must be indicated);
- b) Product name;
- c) Designation, batch number, net weight, gross weight;
- d) Exit-factory date;
- e) "Moisture-proof" sign or words;
- f) Illustration of a radioactive trefoil.

6.1.2 The inner packaging of the product is in a plastic bag, which is sealed by hot pressing or rope-tying. The net weight of each piece is 50kg; the outer packaging is an iron can.

6.2 Transportation and Storage

The product must be protected from rain during transportation and must be stored in a dry place. It must not be placed in the open air. Product transportation must comply with the provisions of GB 11806; the storage warehouse shall be dry, ventilated, and flat, with warning lines drawn and certain shielding and protective measures taken to comply with the provisions of GB 18871.

6.3 Quality certificate

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

- a) Name of supplier (when the supplier is a non-production enterprise, the name of the mining manufacturer must be indicated);
- b) Product name;
- c) Designation, batch number, net weight, gross weight, number of pieces;
- d) Various analysis and inspection results and the stamp of the supplier's quality inspection department;
- e) Number of this Standard;

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