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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 16479-2008

Replacing GB/T 16479-1996

Light rare earth carbonate

碳酸轻稀土

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Foreword

This standard is a revision of GB/T 16479-1996 "Rare earth carbonate". As compared with GB/T 16479-1996, the main changes of this standard are as follows:

- CHANGE the standard name to "Light rare earth carbonate";
- According to the requirements of GB/T 17803-1999 "Designation system for rare earth products", USE digital designation;
- CANCEL the designation of the original $\text{RE}_2(\text{CO}_3)_3 \cdot \text{XH}_2\text{O}$ -H1, ADD the product designation of 193244C;
- ADD the evaluation index of praseodymium oxide content and non-rare earth impurities alumina, zinc oxide; CANCEL the evaluation index of sodium oxide;
- CHANGE the evaluation of calcium oxide and magnesium oxide from the resultant assessment to the component assessment;
- MAKE appropriate adjustments to the content of rare earth elements of each designation as well as the content of other non-rare earth impurities.

This standard was proposed by the Rare Earth Office of the National Development and Reform Commission.

This standard shall be under the jurisdiction of the National Rare Earth Standardization Technical Committee.

Responsible drafting organization of this standard: Inner Mongolia Baotou Steel Rare Earth High-Tech Co., Ltd.

Participated drafting organizations of this standard: Guangdong Zhujiang Rare Earth Co., Ltd., Yixing Xinwei Licheng Co., Ltd.

The main drafters of this standard: Li Dong, Wang Jing, Liu Hengchang, Guo Meiqin, Jin Yanhua, Yu Zhichun.

This standard replaces the standard previously issued as follows:

- GB/T 16479-1996.

Light rare earth carbonate

1 Scope

This standard specifies the requirements, test methods, inspection rules, packaging, marking, transportation and storage of light rare earth carbonate.

This standard is applicable to light rare earth carbonates prepared by chemical methods using the light-rare-earth-based rare earth minerals as raw materials. It is mainly used as a raw material for separating a single rare earth product, preparing a rare earth polishing powder, or as a raw material for producing mixed rare earth oxide for electrolysis purposes.

2 Normative references

The provisions in following documents become the provisions of this standard through reference in this standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this standard; however, parties who reach an agreement based on this standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

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

GB/T 12690 (all parts) Chemical analysis methods of non-rare earth impurities in rare earth metals and the oxides

GB/T 16484 (all parts) Chemical analysis methods of rare earth chloride and light rare earth carbonate

3 Requirements

3.1 Chemical composition

Product designation and chemical composition shall meet the requirements of Table 1. If the purchaser has special requirements, the supplier and the purchaser may negotiate separately.

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