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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 20165-2025**

Replacing GB/T 20165-2012

**Rare earth polishing powder**

稀土抛光粉

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### Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 20165-2012 "Rare earth polishing powder". Compared with GB/T 20165-2012, except for structural adjustments and editorial In addition to the modifications, the main technical changes are as follows.

- a) The scope of application of this document has been changed (see Chapter 1, Chapter 1 of the 2012 edition);
- b) Added brand names and brand name representation methods (see Chapter 4);
- c) The digital brand names have been deleted (see Table 1 of the 2012 edition);
- d) Added 14 characters for the brand name (see 4.1);
- e) Deleted true density and phase composition (see 4.1 of the 2012 edition);
- f) The requirements for specific radioactivity have been deleted (see 4.2 of the 2012 edition);
- g) Added the requirements and test methods for  $\text{La}_2\text{O}_3/\text{REO}$  and  $\text{Pr}_6\text{O}_{11}/\text{REO}$  in the chemical composition (see 5.1 and 6.1.3);
- h) Added requirements and test methods for bulk density and specific surface area (see 5.2, 6.2.2, and 6.2.3);
- i) The requirements and test methods for pH value have been changed (see 5.3, 6.3, and 4.3, 5.6 of the 2012 edition);
- j) The requirements for appearance quality have been changed (see 5.4, 4.4 of the 2012 edition);
- k) Sampling and sample preparation have been changed (see 7.4, 6.4 of the 2012 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Rare Earth Standardization Technical Committee (SAC/TC229).

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This document was first published in 2006, revised for the first time in 2012, and this is the second revision. Rare earth polishing powder

## 1 Scope

This document specifies the grades and designation methods, technical requirements, test methods, inspection rules and marking, packaging, transportation, and other aspects of rare earth polishing powder.

Transmit, store and carry documents.

This document applies to powder products with certain polishing properties that are made from cerium-based rare earth compounds through chemical processing.

Note. Rare earth polishing powder is mainly used in cover glass (including mobile phone back cover), hard disk glass substrate, optical devices, crystal, rhinestone jewelry, liquid crystal glass substrate, etc. Surface polishing.

## 2 Normative references

GB/T 6682

GB/T 8170

GB/T 12690.2

GB/T 12690.3

GB/T 14635-2020

GB/T 18115.2

GB/T 20166.1

GB/T 20166.2

GB/T 20167

GB/T 20170.1

GB/T 20170.2

GB/T 31057.1

GB 39176

GB/T 40795.2

JJG119-2018

### **3 Terms and Definitions**

The terms and definitions defined in GB/T 20167 apply to this document.