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

GB/T 37041-2018

Fine barite powder

精细重晶石粉

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed by the China Building Materials Federation. This standard is under the jurisdiction of the National Non-metallic Mineral Products and Products Standardization Technical Committee (SAC/TC406). This standard was drafted. Shanyang Aoke Powder Co., Ltd., Hubei Tiangongwu New Material Technology Co., Ltd., Zhejiang Kama Friction Material Materials Co., Ltd., Xianyang Non-Metallic Mineral Research and Design Institute Co., Ltd., Foshan Shunde District Quality and Technical Supervision Standards and Coding Institute, Country Non-metallic mineral products quality supervision and inspection center. The main drafters of this standard. Si Yuhua, Zhang Shishuang, Tan Qiao, Xu Changcheng, Liu Qiang, Ouyang Dan, Zhu Meng, Duan Yaping. Fine barite powder

1 Scope

China's national standard for fine barite powder. It specifies the terms and definitions, the requirements, the test methods, the inspection rules and the marking, packaging, transport and storage. Barite is barium sulfate, and its whole value is density: at about 4.2 grams per cubic centimetre it is far heavier than any other cheap mineral, and almost everything it is used for follows from that. Ground and suspended in water or oil it makes the drilling mud whose weight holds back the pressure of a well - which is by a wide margin the largest use, and the reason barite is a strategic mineral for the oil industry. In finer grades it is a filler in paints, plastics and rubber, where it adds weight and opacity cheaply and, being chemically inert and insoluble, does not react with anything. And it absorbs X-rays, which is why it goes into radiation shielding concrete and plaster. The requirements accordingly turn on specific gravity, purity and particle size distribution.

This standard specifies the terms and definitions, requirements, test methods, inspection rules, and marking, packaging, transportation and storage of fine barite powder. This standard applies to fine barite powder for materials such as paints, plastics, rubber, paints and inks.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 5950 Whitening method for building materials and non-metallic mineral products

GB/T 6003.1 Test sieves - Technical requirements and testing - Part 1

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 8170 Numerical Rounding Rules and Representation and Determination of Limit Values

GB/T 17749-2008 Whiteness representation

GB/T 19077 Particle Size Analysis Laser Diffraction Method

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Using natural barite as raw material, the content of barium sulfate produced by pulverization and processing is greater than or equal to 94% and the particle size is less than 45 μ m. Spar powder.

4 Requirements

4.1 Appearance White, off-white or light yellow powder.

4.2 Physical and chemical properties The physical and chemical properties of fine barite powder should meet the requirements of Table 1. Table

1 Physical and chemical properties of fine barite powder Project indicator Barium sulfate content /% $\geq$

94.0 Total iron (calculated as ferric oxide) content /% ≤ 0.10 105 ° C volatile content /% ≤ 0.50