

ICS 73.080

CCS Q 69



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

GB/T 43488-2023

Attapulgit

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Issued on: December 28, 2023

Implemented on: July 1, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

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1 Scope

China's national standard for attapulgate. It specifies the classification, the technical requirements and the test methods. Attapulgate - palygorskite - is a clay unlike the others: its crystals are needles rather than plates, and that shape is the origin of everything it is used for. A suspension of needles builds a random three-dimensional network that thickens the liquid and holds solids in suspension, and unlike the plate clays it does so almost regardless of salinity, which is why it is the thickener in saltwater drilling muds where bentonite fails. The needle structure also has channels running along it that make the mineral highly absorbent, which is the basis of its use in cat litter, as an oil and grease absorbent, and as a carrier for pesticides and feed additives. China holds among the largest deposits, principally in Jiangsu and Anhui, which is why the material is standardised here.

This document stipulates the classification, technical requirements, test methods,

inspection rules and marking, packaging, transportation and storage of rectorite: This document is applicable to the production of rectorite for petroleum catalytic cracking carriers, rectorite for suspension additives for casting coatings, and rectorite for drilling mud: For inspection, use it as a reference for other industrial rector stones:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 5005 Drilling fluid material specifications GB/T 6003:

1 Technical requirements and inspection of test sieves Part 1: Wire braided mesh test sieves

GB/T 8170 Numerical rounding rules and expression and determination of limit values

GB/T 19587 Determination of specific surface area of solid materials by gas adsorption BET method

GB/T 23771 Determination of bulk density in inorganic chemical products DZ/T 0118
Technical conditions of standard sieve shaker for laboratory use

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 A regular interlayered hydrous layered silicate mineral composed of dioctahedral sodium mica and dioctahedral montmorillonite:

4 Categories

Rectorite is divided into three categories according to its uses: rectorite for petroleum catalytic cracking carriers, rectorite for casting coating suspension additives and rectorite for drilling mud: Rectorite, among which rectorite used as suspension aid for casting coatings, is divided into sodium-based rectorite and lithium-based rectorite according to the properties of rectorite:

5 Technical requirements

1 The physical and chemical properties of rectorite used as a carrier for petroleum catalytic cracking should comply with the requirements in Table 1: