

## Barite Powder DBM-BN 4.1 (API)

### Product Features

Barite is a high-density, chemically inert mineral widely used as a weighting agent in drilling fluids for oil and gas exploration. Its high specific gravity makes it ideal for paints, plastics, and rubber, enhancing durability and resistance. Additionally, its whiteness and smoothness make it useful as a filler in coatings and ceramics.

### Technical Specifications

Property	API Requirement	Test Result
Density	4.10 g/ml (Min)	4.11 gm/cc
Water-soluble alkaline earth metals, as calcium	250 mg/kg (Max)	73 mg/kg
Solubility in Water	Insoluble	Insoluble
Residue greater than 75 µm	Max mass fraction 3.0%	1.90%
Particles less than 6 µm in equivalent spherical diameter	Max mass fraction 30%	23.06%

### Safety Data

Barite Powder is generally non-toxic and chemically stable; however, prolonged inhalation of dust may cause respiratory irritation. When handling, use appropriate personal protective equipment such as a dust mask, gloves, and safety goggles. Avoid generating dust and ensure good ventilation in the work area. In case of eye contact, rinse thoroughly with water. Store in a cool, dry place, away from moisture.

### Product Variants

Barite is available in various grades and particle sizes to suit different applications. These include barite for use in drilling fluids with specific weight and viscosity, and paint-grade barite, which is finely milled for enhanced brightness and opacity in coatings. Additionally, barite can be offered in bulk or packaged options, catering to the needs of various industries, including oil and gas, construction, and manufacturing.

### Packaging Information

Barite Powder is normally supplied in bulk jumbo bags, but it can also be customized based on customer's requirements. All packaging is designed for easy handling, storage, and transportation, ensuring the product remains dry and protected from moisture. It can also be supplied in lump shape, if required.

### Application and Usage

Barite has the variety of applications in different industries such as;

- >> Drilling Industry; Barite is a critical component in drilling fluids, helping to control pressure within the well. Its high density helps prevent blowouts and stabilizes the drilling operation by preventing unwanted fluid influx.
- >> Paints Industry; In the paints and coatings sector, Barite is used as a filler and extender. It improves the paint's coverage, enhances its durability, and helps in achieving better texture and smoothness, while also contributing to color stability and opacity.
- >> Plastics Industry; Barite is incorporated into plastics as a filler material to improve strength, increase weight, and add density. It is commonly used in manufacturing plastic components like automotive parts, pipes, and cables, adding to their overall performance.
- >> Rubber Industry; Barite plays a role in enhancing the weight and strength of rubber products. It is used in manufacturing products like automotive tires and industrial rubber parts, where durability and strength are essential for performance under heavy-duty conditions.
- >> Ceramics Industry; Barite is utilized in the ceramics industry, particularly in the production of glazes and porcelain. It helps improve the thermal stability and visual appeal of ceramic products, such as tiles and sanitaryware.
- >> Pharmaceutical Industry; Barite is used as a contrast medium in the pharmaceutical industry, particularly for X-ray imaging. It enhances the visibility of the gastrointestinal tract in medical imaging, aiding in the diagnosis and evaluation of various digestive system conditions.

### Warranty

DATSON Building Materials warrants that the product supplied meets the specified quality and performance standards as outlined in this datasheet. We guarantee that the material is free from defects in manufacturing and workmanship. For warranty claims, please retain proof of purchase and contact our customer service team.

