



TECHNICAL DATA SHEET (TDS)

BARITE (BARIUM SULFATE)

Product Description

Barite is a high-density, chemically inert mineral used primarily as a **weighting agent in drilling fluids** and as a **functional filler** in industrial applications. Its stability, insolubility, and high specific gravity make it suitable for demanding operational environments.

Typical Applications

- Oil & gas drilling fluids (API barite)
- Paints and industrial coatings
- Plastics and rubber compounds
- Radiation shielding materials
- Industrial fillers and construction

Typical Technical Properties

Property	Specification
Chemical Composition	BaSO ₄
Purity	90–98% (grade dependent)
Specific Gravity	4.1 – 4.5
Appearance	White to off-white powder
Moisture Content	≤ 1.0%
Solubility	Insoluble in water
pH	Neutral
Hardness (Mohs)	3 – 3.5



Particle Size (Typical)

Available in multiple mesh sizes:

- API drilling grade
- Industrial coarse grades
- Micronized grades (on request)

Particle distribution is controlled based on application requirements.

Quality Standards

- API 13A (Drilling Grade)
- ASTM standards (Industrial Grades)
- Internal QC testing for consistency and purity

Each batch is supplied with **Certificate of Analysis (COA)** upon request.

Packaging Options

- 25 kg PP bags
- Jumbo bags (1 MT)
- Bulk supply (on request)

Packaging is designed to prevent moisture ingress and contamination.

Storage and Shelf Life

Storage:

Dry, covered, well-ventilated area

Shelf Life:

Unlimited when stored properly



Handling Recommendations

- Avoid dust formation
- Use mechanical handling systems where possible
- Follow standard industrial hygiene practices

Important Notes for Buyers

- Grade selection must match application requirements
- API compliance is critical for drilling operations
- Particle size control affects performance significantly