ATABAŞ
New Generation Sustainable Trade
SINCE 1981

TECHNICAL DATA SHEET (TDS)
BARITE (BARIUM SULFATE)

Ref: ATB-TDS-BARITE-2026-001 | Revision No: 2 | Revision Date: 18 September 2026 (Rev.01: 10 August 2026)

1. PRODUCT IDENTIFICATION

Product Name	Barite (Barium Sulfate)
Synonyms	Barium Sulphate, Baryte, Heavy Spar
Chemical Formula	BaSO4 (MF: BaO4S — MW: 233.39)
CAS No. / EINECS (EC) No.	13462-86-7 / 236-664-5
HS Code	2511.10
Appearance	Fine, heavy powder or polymorphous crystals, white to yellowish, odorless
Grade	Drilling-fluid grade (drilling mud material) — API Spec 13A / ISO 13500

2. ORIGIN AND COMPLIANCE

The product is of 100% Turkish Origin. It is manufactured and tested to comply with TS EN ISO 13500 / 13.07.2010 under a valid Turkish Standards Institution (TSE) Certificate of Conformity to Turkish Standards, Reference Number of Licence 000243-TSE-03/03 (first issued 16.04.2009, licence valid until 30.10.2026), covering drilling mud materials including Barite, and is prepared with reference to API Spec 13A / ISO 13500 drilling-fluid materials standards.

3. SPECIFICATION

Requirement	**Standard**
Density	4.20 g/ml, minimum
Water-soluble alkaline earth metals, as calcium	250 mg/kg, maximum
Residue greater than 75 µm	Maximum mass fraction 3.0%
Particles less than 6 µm in equivalent spherical diameter	Maximum mass fraction 30%

4. PHYSICAL PROPERTIES

Melting Point	1580 °C (with decomposition)
Boiling Point	330 °C at 760 mmHg (initial boiling point)
Decomposition Temperature	1600 °C
Density	4.25 – 4.50 g/cm³
Solubility in Water	0.0002% at 64 °F — practically insoluble; insoluble in dilute acids and alcohol; soluble in hot concentrated sulfuric acid
pH (5% suspension in water)	Neutral to litmus paper
Flammability	Non-combustible solid

5. TESTING PROCEDURE

Barite analysis is done according to API Spec 13A / ISO 13500 / TS EN ISO 13500.

6. APPLICATION

- Weighting agent (weighting mud) for oil and gas well drilling fluids — increases mud density to control downhole pressure.
- Raw material for paints, paper coatings, linoleum, textiles and rubber manufacturing.

7. PACKAGING

Supplied in BigBag (jumbo bags), standard net weight 1,000 kg per bag, with moisture-proof polythene liner. Alternative packaging subject to agreement in the sales contract.

8. STORAGE

Store in a dry, well-ventilated place at 25 °C; excursions permitted to 15–30 °C. Keep bags sealed and off damp ground.

9. SANCTIONS COMPLIANCE (OFAC / EU / UK / UN)

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its business in full compliance with applicable international sanctions regimes, including those administered by the U.S. Office of Foreign Assets Control (OFAC), the European Union, the United Kingdom (OFSI) and the United Nations Security Council.

ATABAŞ does not work with sanctioned countries, sanctioned entities or sanctioned individuals, and does not source, sell, ship, finance or otherwise facilitate transactions involving any party subject to such sanctions. All transactions are screened accordingly.

For and on behalf of ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ
Mr. Hakan Atabaş — Chairman of the Board / CEO

Signature / Stamp: _____