



Barite is used by the petroleum industry as a weighting material in formulation of "drilling mud". Barite increases the hydrostatic pressure of the drilling mud allowing it to compensate for high-pressure zones experienced during drilling. The softness of the mineral also prevents it from damaging the drilling tools during the drilling process and enables it to serve as a lubricant.

**Micronised Mineral Solutions Pty Ltd (MMS)** mines and manufactures Barite, a high purity Barium Sulphate (BaSO<sub>4</sub>) product ground to a very fine grain size. MMS sources Barite from its own lease south of Darwin and utilises its advanced manufacturing facility to enable the efficient delivery of fine ground Barite to API standards and delivery options including bulker bag and bulk tanker to customers' silos.

**POTENTIAL USAGE**

- Barite is used as a weighting agent to increase mud density in all types of drilling systems; especially for Oil & Gas sector.
- It is a critical component for the stabilisation of a mud system to control formation pressures and stabilise the borehole.

**Packaging options:** Bulker Bags 500 / 1000 / 1200 kgs

**PRODUCT HANDLING & STORAGE**

Barite is classified as a fine grain material and is suited to pneumatic and mechanical conveying systems. Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store removed from direct sunlight. Protect from moisture. Avoid inhalation and use the product in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standards.

**PRODUCT SAFETY INFORMATION**

Personnel should wear protective clothing, dust-proof goggles, PVC or rubber gloves and impervious boots. While using in large quantities, wear coveralls. For full information, refer to the Safety Data Sheet for Barite.

Physical Properties	Typical	Range
Bulk Density	4200 kg/m <sup>3</sup>	4000 - 4500 kg/m <sup>3</sup>
Specific Gravity	4.2	4.0 Min
Appearance	Rose Colour	Pink - White
75µm residue	1.5%	3% Max
45µm residue	16%	7% Min

PROPERTIES	TYPICAL	RANGE
Density, ppg	18.63	17.7 Min
Plastic Viscosity, cps	17	55 Max
Yield Point, lb/100 sq.ft	18	25 Max
Total Hardness, mg/l Ca	400	500 Max
pH	8	8.3 Max
Sand, % by Volume	3.5%	5% Max

