

## TECHNICAL DATA SHEET

# BARITE-DRILLING GRADE

Micronised Mineral Solutions Pty Ltd (MMS) mines and manufactures Barite, a high purity Barium Sulphate ( $\text{BaSO}_4$ ) product that is ground to a very fine grain size.

MMS sources Barite from its own quarry south of Darwin and utilises its advanced manufacturing facility to enable the efficient delivery of fine ground Barite in bulk to the silos.

### POTENTIAL USES

- ☆ 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.

### MMS BARITE HANDLING & STORAGE

MMS Barite is classified as a fine grain material and is suited to pneumatic & 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.

### MMS BARITE 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.

PROPERTIES	TYPICAL	SPECIFICATION
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	8.0	8.3 Max
Sand, % by Volume	3.5	5% Max

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

### COMPANY INFORMATION

Micronised Mineral Solutions Pty Ltd (MMS) was incorporated in 2007 to provide a comprehensive suite of industrial minerals to the gas & oil, mining and agricultural sectors of Northern Australia. A local Northern Territory company that prides itself on a whole of service approach offering product development, in house and independent laboratory testing, engineering and construction of water discharge systems. Strategically located in East Arm Port and Darwin Rail districts, the company has grown to a position of strength and has a dedicated industrial milling operation with annual capacity of up to 100,000 tonnes production. Proud owners of Mineral deposits located throughout the NT containing Calcium Carbonate and Barium Sulphate.

### SPECIALISED SERVICES

- ◆ pH Management and Control
- ◆ High Effective Neutralisation Value product for acidic soils
- ◆ Specialised Soil Stabilisation products
- ◆ Drilling products for Oil & Gas Industry
- ◆ Supply of Quicklime to industries
- ◆ Liquid Fertilisers

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