



TECHNICAL DATA SHEET

BARITE

Barite4.4

General Properties

Barite from MAYN is a finely ground natural Barium Sulfate manufactured from barite lumps. It is applied for oil drilling mud. Due to its high specific gravity, it is most widely used as a weighting agent in water-based and oil-based drilling fluids to increase its density.

Chemical Composition

IUPAC Name	Chemical Formula	Weight (%)
Barium oxide	BaO	43.0%
Sulfur trioxide	SO ₃	20.0%
Iron (III) oxide	Fe ₂ O ₃	15.0%
Silicon dioxide	SiO ₂	6.00%
Calcium oxide	CaO	2.80%
Strontium oxide	SrO	1.40%
Manganese (II) oxide	MnO	1.00%
Sodium oxide	Na ₂ O	1.00%
Aluminium oxide	Al ₂ O ₃	0.90%
Chlorine	Cl	0.50%
Phosphorus pentoxide	P ₂ O ₅	0.40%
Loss in ignition	L.O.I.	5.30%

Physical Properties	
Appearance	Red/Brown
Status	Solid
Density	≥ 4.4 g/cm ³
Soluble hardness (as Calcium)	< 250 mg/kg
Particle Size Distribution	
Particles > 75 micron (mesh 200)	≤ 3%
Particles < 6 micron	≤ 30%
Type of Packing	
Jumbo bag	

Barite is a prepared natural product. All data are approximate values and do not represent any warranty

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MAYN

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