



# TECHNICAL DATA SHEET

## BARITE

Barite4.2

### 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 <sub>3</sub>                | 20.0%      |
| Iron (III) oxide     | Fe <sub>2</sub> O <sub>3</sub> | 15.0%      |
| Silicon dioxide      | SiO <sub>2</sub>               | 6.00%      |
| Calcium oxide        | CaO                            | 2.80%      |
| Strontium oxide      | SrO                            | 1.40%      |
| Manganese (II) oxide | MnO                            | 1.00%      |
| Sodium oxide         | Na <sub>2</sub> O              | 1.00%      |
| Aluminium oxide      | Al <sub>2</sub> O <sub>3</sub> | 0.90%      |
| Chlorine             | Cl                             | 0.50%      |
| Phosphorus pentoxide | P <sub>2</sub> O <sub>5</sub>  | 0.40%      |
| Loss in ignition     | L.O.I.                         | 5.30%      |

| Physical Properties              |                         |
|----------------------------------|-------------------------|
| Appearance                       | Red/Brown               |
| Status                           | Solid                   |
| Density                          | ≥ 4.2 g/cm <sup>3</sup> |
| 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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