



Technical Datasheet

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Barite 4.1

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Description

Barite 4.1 is a common oil field weighting agent for adjusting density of water-based or oil-based drilling fluids. Barite or barite is barium sulfate. The only difference between Barite 4.1 and Barite 4.2 (API) is that, the specific gravity of the latter is 4.1 instead of 4.2. All other specifications in API standard for Barite is met with Barite 4.1.

Barite 4.1 is completely inert and does not make any chemical reaction with other common additives in different types of fluid systems.

Application

Barite 4.1 is a common weighting agent for different types of drilling fluids. It can be used to weight up muds up to 22 ppg (pound per bbl.). Barite 4.1 also is used to make different types of pills such as pipe-lax pills, Gunk-pills, Barite-plug pills and etc.

Advantages

- very common in oil field
- chemically inert and insoluble in water or oils
- Minimal effect on drilling fluid properties
- Low abrasive characteristic

Treatment

Barite 4.1 can be used to weight up different variety of muds (water-based or oil-based) up to 22 ppg (pound per bbl.). The required density of Barite 4.1 depends on the required density, type of the base fluid and concentration of dissolved salts in the base fluid.

In oil-based muds, the proper wetting agent must be added to the system to make sure Barite particles are wet enough to be effectively dispersed in the drilling fluid.

Typical Properties

APPEARANCE	Gray, Pink or Tan Powder
SPECIFIC GRAVITY	4.1 g/cm ³
Bulk density	1,714 – 2,162 kg/m ³
Soluble hardness (as calcium)	250 mg/kg, max.
Particles >75 micron (wet screen)	3% wt, max.
Particles <6 micron (sedimentation)	30% wt, max.

Packaging

Barite 4.1 is available in 1.5 MT Big Bags.