



Product Information

Barite

GENERAL DESCRIPTION

Barite (BaSO_4) is used as a weighting agent in both water and oil base drilling fluids.

FEATURES AND BENEFITS

Barite is supplied to meet API specifications.

Specific Gravity:

Minimum 4.2 3% residue (max.) on US Sieve #200 (74 microns)

5% residue (min.) on US Sieve #325 (44 microns)

Due to its relatively low cost and high density, Barite is the most commonly used weight material in drilling fluids.

Barite weighted fluids can achieve a maximum density of +/- 2,400 kg/m^3 .

RECOMMENDED TREATMENT

The quantity of Barite required will depend upon encountered formation pressures and Operator's specifications. The formula for calculating the required amount of Barite to achieve a desired density is:

$$\text{Barite } \text{kg/m}^3 \text{ required} = \frac{4200 (W_2 - W_1)}{4200 - W_2}$$

where:

W_1 = initial mud weight (kg/m^3)

W_2 = desired mud weight (kg/m^3)

For every 100 sacks of barite mixed, the volume will increase by 1 cubic meter. Add through the hopper as rapidly as needed. When large amounts are added to a system, add water to prevent mud dehydration.

TYPICAL PHYSICAL PROPERTIES

Appearance	fine beige/gray powder
Specific Gravity	4.20
Bulk Density	2,160 kg/m^3

HANDLING

Barite is not a controlled product using the WHMIS classification.

Refer to MSDS information for specific precautions and handling.

AVAILABILITY

Barite is packaged in 40kg bags and is available from HiTech Fluid Systems Ltd.