BAROID® 41

WEIGHTING MATERIAL

Product Description

BAROID® 41 weighting material is ground Barite and used to increase the density of drilling fluids to control formation pressures. BAROID 41 weighting material has a specific gravity of 4.1 and can be used to increase the density in oil and water-based drilling fluids up to 20 lb/gal (2.40 SG). BAROID 41 weighting material is more widely available than standard BAROID weighting material. It is chemically inert and does not affect drilling fluid chemical properties.

Applications/Functions

» Helps increase mud density up to 20 lb/gal (2516 kg/m³)
» Helps control formation pressures
» Helps stabilize the borehole
» Helps prepare solids-laden plugs for well control applications

Advantages

» The industry standard weighting agent for drilling fluids
» Chemically inert
» Cost-effective weighting agent

Typical Properties

» Appearance: Powder
» Specific Gravity, minimum: 0.749 to 0.77

Recommended Treatment

Use the following weight-up formulas to determine the appropriate concentrations to be added to the system.

For 1 bbl starting volume: \[ X = \frac{1435 \times (W_f - W_i)}{(34.2 - W_f)} \]
For 1 bbl final volume: \[ X = \frac{1435 \times (W_f - W_i)}{(34.2 - W_f)} \]

Where:
\[ X = \text{BAROID 41 weight material required, lb/bbl} \]
\[ W_i = \text{Initial mud weight, lb/gal} \]
\[ W_f = \text{Final desired mud weight, lb/gal} \]

Packaging

BAROID 41 weighting material is packaged in 50-lb (27.7-kg), 100-lb (45.4-kg) and 88.2-lb (40-kg) sacks and in bulk.