

# 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/m<sup>3</sup>)
- » 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:  $X = 1435 (W_f - W_i) / (34.2 - W_i)$

For 1 bbl final volume:  $X = 1435 (W_f - W_i) / (34.2 - W_i)$

Where:

X = BAROID 41 weight material required, lb/bbl

W<sub>i</sub> = Initial mud weight, lb/gal

W<sub>f</sub> = 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.

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