

Barite 4.1

Description

Barite 4.1 is created by grinding barium sulfate mineral to meet API specification 13A for drilling fluid applications. It is chemically inert and insoluble in water. It does contain impurities such as quartz and calcite. Barite 4.1 has relatively higher impurities than Barite 4.2, however the performance difference is marginal.

Barite 4.1 from QMax contains very low levels of heavy metals to meet the most stringent environmental regulations.

Applications

Barite 4.1 has the capability to weight up fluids up to 20 ppg with acceptable rheological properties. Additionally, it can be used to weight up plugs or pills for hole cleaning, wellbore displacement and/or well-control operations.

Features and Benefits

- Cost effective
- Industry standard weighting agent
- Chemically inert

Typical Properties

| | |
|---|----------|
| Appearance | Powder |
| Specific Gravity | 4.10 Min |
| Residual greater than 75 microns | 3% Max |
| Residual less than 6 microns | 30% Max |

Recommended Treatment

The amount of Barite 4.1 required to weight up a fluid is shown in the equation below:

Barite 4.1 required, ppb

$$= 1436 * \frac{(Final\ density, ppb - Initial\ Density, ppb)}{(34.2 - Final\ Density, ppb)}$$

Barite 4.1 should not be used in concentrated potassium or cesium formate brines, as it will produce barium ions which are hazardous.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Barite 4.1 is available in 50 lb (22.7 kg), 55 lb (25 kg), 100 lb (45.4 kg), 1 MT sacks and in bulk.

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