HEMATITE POWDER API

P1800.1007

WBM/OBM Drilling

Product Description

Hematite Powder is a high quality, ground iron oxide (hematite) utilized as a weighting agent in drilling fluids which meets ANSI/API Specification 13A:18th edition – February 2010 / ISO 13500:2009 Section 8.

Product Function

Hematite Powder can be used to increase the density of all drilling and completion fluids to 25 lb/gal (3.0 SG).It is especially useful in high-density kill fluids.

Features and Benefits

Hematite Powder is applicable in all types of drilling fluids, including freshwater, seawater and oil-base mud. Hematite Powder is ground to such a particle size that less than 1.5% wt will be more than 75 micro; less than 15% wt will be less than 6 micron and less than 15% wt will be high than 45 micro at a specific gravity of 5.05. Fluids weighted with Hematite contain fewer solids by volume than those weighted with barite, making higher mud weights possible.

Recommended Treatment

The quantity of Hematite required can be calculated using the following formula: Hematite, Lb/bbL = 1,750(W2-W1)/41.66-W2 Where: W1=Initial mud weight in lb/gal W2=Desired mud weight in lb/gal Hematite, Kg/m3 = 5,000 (W2 – W1)/5.05 - W2 Where: W1=Initial mud weight in SG W2=Desired mud weight in SG

International Shipping References

Transportation of Hematite Powder is not restricted by any regulatory agency.

Standard Packing

Hematite Powder is packaged in 100-lb (45.4-kg), multiwall paper sacks; and is available in bulk.

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Utilize appropriate respirator, gloves, goggles and apron. Refer to the Material Safety Data Sheet (MSDS) for this product prior to use.

Typical Physical Properties

- Physical State: Solid
- Reservoir Compatible: Both
- Sub Category: Acid Soluble
- SG value: 5.05
- Specific Gravity: 5.05 min
- Soluble Hardness(As calcium): 100 mg/Kg, Max
- Residue greater than 4,575 µm: 15% maximum mass fraction
- Max Temperature: 450
- Category: Weighting Agents
- Product Tier: Regular
- Appearance: Dry red to brown powder
- Particle Hardness: 5-6 MOHS Scale (1-10)
- Residue greater than 75 µm: 1.5% maximum mass fraction

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