THERMA-FLOW 500® thinner is an environmentally friendly deflocculant / dispersant that is used to control thermal gelation while stabilizing rheological properties in HPHT water based fluids. It is effective over broad pH ranges and mud types and particularly efficient in lowering PV's in high temperature, high density fluids.

Applications / Functions

- High temperature water-based mud conditioner used in a variety of water-based mud systems
- Helps maintain HPHT WBM viscosity and rheology by acting as a deflocculant in high solids, high density muds (i.e. >18 ppg fluids)
- Performs in temperatures in excess of 400°F (204°C) to minimize high temperature gelation.

Advantages

- Low PV plastic viscosity
- Aids in maintaining acceptable YP (yield point)
- Low PV with acceptable YP allows for low ECD while maintaining excellent hole cleaning
- Minimal losses while drilling and while running casing
- Good hole cleaning characteristics were reported in the hole sections where the new additive was implemented in the field
- Fluid stability to bottom hole static temperatures in excess of 400°F (204°C) even after extended logging time
- Environmentally friendly

Typical Properties

- **Appearance**: Clear yellow liquid
- **pH, (neat)**: 5.5
- **Pour point**: < 41°F (5 °C)
- **Specific gravity**: 1.25

Recommended Treatment

Treatment is usually 1 to 4% v/v depending upon mud condition, mud weight, BHT, MBT and colloidal solids content.

Packaging

THERMA-FLOW 500 thinner is packaged in 250-kg net HDPE drums.

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

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