GEL SUPREME

Viscosifier

Product Description

GEL SUPREME is a premium grade bentonite (sodium montmorillonite clay) which has not been chemically treated.

It is used as a primary filter-cake-building, filtration-control and suspension agent in freshwater systems, and has application in all water-base mud systems. It is a high-quality product which meets the ISO 13500 Clause 9, API Spec 13A, Section 10 specifications.

Typical Physical Properties

Physical appearance	Light tan/gray-green powder
Specific gravity	2.3 - 2.6
Bulk density	48 - 52 lb/ft3 (769 - 833 kg/m^3)

Application

It is used to increase viscosity and reduce fluid-loss in water-base drilling fluids. It is a cost-effective means of achieving viscosity, fluid-loss control and filter-cake quality in freshwater and seawater muds.

As with all bentonite products, the yield decreases as water salinity increases. In muds containing more than 10,000 mg/L chlorides, the performance of it is significantly reduced unless pre hydrated in freshwater before adding to the mud system.

Advantages

- Hydrates more than other types of clays and is best for generating viscosity, developing gels for suspension and controlling filtration
- Small particle size, unique flat shape and high surface area of hydrated GEL SUPREME viscosifier provides superior filtration characteristics

Limitations

Performance reduced in salty (>5,000 mg/L Cl^-) or hard (>240 mg/L Ca++) waters due to decreased hydration

Recommended Treatment

Typical concentrations for GEL SUPREME range from 5 to 35 lb/bbl (14.3 to 100 kg/m^3).

Packaging and Storage

GEL SUPREME is packaged in 100-lb (45.4-kg) multi-wall paper sacks, 40-kg sacks, 1 MT big bags and is available in bulk.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.