



PRODUCT DESCRIPTION

NewGel™ viscosifier is a finely ground, premium-grade, western bentonite. It is used in water-based drilling fluids as an agent for filter cake building, filtration control and suspension.

BENEFITS

- Increases viscosity and improves hole cleaning
- Reduces filtration rates into permeable zones
- Deposits a thin, tough filter cake
- Stabilizes the wellbore through the plastering effect in poorly cemented formations
- Provides gel structure to water-based drilling fluids

APPLICATION

NewGel viscosifier is used in freshwater drilling fluid and can be pre-hydrated for use in saltwater fluids. It is used in concentrations of 5-30 lb/bbl.

TREATMENT RECOMMENDATION

NewGel bentonite can be mixed directly into the system through the hopper or pre-hydrated in freshwater before being added to the system. For maximum yield, NewGel viscosifier should be mixed in freshwater. As the hardness and salinity of the make-up water increases, the yield of the gel will decrease. Near maximum yields can be obtained if the water salinity and hardness are maintained below 5,000 mg/L chlorides and 200 mg/L total hardness, respectively.

TYPICAL PHYSICAL PROPERTIES

Appearance.....Tan to gray, free-flowing powder

600 RPM Viscometer Dial Reading:

22.5 lb/bbl in Distilled Water..... 30, min

Yield Point, lb/100 ft².....3 x PV, max

Filtrate Volume.....15.0 mL, max

Wet Screen Analysis:

Residue on U.S. Sieve No. 200.....4.0 wt%, max

Moisture, as from Manufacturer.....10.0 wt%, max

HANDLING AND STORAGE

Keep this material dry because NewGel powder is extremely slippery when wet. Avoid breathing dust. Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

PACKAGING

NewGel viscosifier is available in 100-pound (45.4-kilogram) multi-walled bags.