

# NewGel™ HY

VISCOSIFIER



## PRODUCT DESCRIPTION

NewGel™ HY viscosifier is an extra high-yield, finely ground, premium-grade western bentonite designed for use in mineral exploration and directional drilling. 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 HY viscosifier is used in freshwater drilling fluids and can be pre-hydrated for use in saltwater fluids. In mineral exploration it is used in conjunction with DynaLose™ CM or EvoTrol™ filtration control agents. Depending upon the quality of the rock, concentrations may be 0.25-2.0 bags per 300-gallon batch, or 10-100 lb/bbl.

## TREATMENT RECOMMENDATION

NewGel HY bentonite can be mixed directly into the system through the hopper or pre-hydrated in freshwater before adding to the system. The pH of make-up water should be adjusted to 8-9 prior to product additions. For maximum yield, NewGel HY 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, SPECIFICATIONS

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

## HANDLING AND STORAGE

Keep this material dry because NewGel HY 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 HY viscosifier is available in 50-pound (22.7-kilogram) multi-walled bags.