

# VG-Supreme

VG-Supreme\* additive is a high-performance rheological additive for invert emulsion and all-oil drilling fluids. It provides excellent anti-sag features and exhibits a very rapid yield under low-shear and low-temperature conditions. VG-Supreme additive is ideal for minimizing barite sag in extended-reach wells and for preventing settling in low-shear mud plant operations.

## Typical Physical Properties

Physical appearance .....Very light cream powder  
 Specific Gravity.....1.7

## Applications

VG-Supreme additive is a specially formulated organophilic clay, capable of developing outstanding low-shear-rate viscosity and suspension properties. It can be used as the primary or supplemental viscosifier, depending on the specific drilling conditions. VG-Supreme additive can be used in virtually any base oil or synthetic fluid, as well as all-oil drilling fluids.

VG-Supreme additive is an effective replacement for gelling agents in both mud plant and onsite well applications, where rapid yield is essential to prevent static or dynamic settling. Unlike some other organophilic clays, VG-Supreme additive will develop the maximum rheological properties shortly after being mixed with minimal shear. This eliminates situations where rheology would increase for several circulations after the organoclay addition. Laboratory tests show that VG-Supreme additive generates the same or equal rheology more rapidly than standard organophilic clays.

When used for preventing barite sag and improving hole cleaning, VG-Supreme additive treatments should range between 0.1 - 1.0 lb/bbl. A concentration of 1.0 – 3.0 lb/bbl VG-Supreme additive can be used at the mixing plant for initial mixing, or as a supplement to 1.0 - 5.0 lb/bbl standard organoclays.

VG-Supreme additive is an ideal additive for dilution premixes used to reduce the mud weight or to decrease the low-gravity solids concentration. For normal maintenance, concentrations of 1.0– 3.0 lb/bbl can be used when maintaining rheology or 3.0 – 10.0 lb/bbl when increasing the rheology by pre-mix additions.

## Advantages

- Highly efficient in developing low-shear-rate viscosity
- Excellent anti-sag capabilities
- Enhances hole-cleaning capacity
- Rapid yielding
- Very effective in low-shear and low-temperature mixing conditions

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## Limitations

- Excessive treatment with VG-Supreme additive tends to increase mud rheology at cold temperatures. In deep water applications the rheology should be measured at two or three temperatures, including the flow line temperature.

## Toxicity and Handling

Information on biological data can be provided upon request.

Handle in accordance with the Material Safety Data Sheet (MSDS) and general requirements for working with industrial reagents

## Packaging and Storage

VG-Supreme viscosifier is packaged in 50-lb (22.7-kg, multi-wall, paper sacks.

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.

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