

VG-69

VG-69* organophilic clay is a viscosifier and gelling agent used in VERSA* oil-base and Nova* synthetic-base systems.

This amine-treated bentonite is used to increase carrying capacity and suspension properties, providing support for weight materials and improved cuttings removal. VG-69 viscosifier also aids in filter-cake formation and filtration control.

Typical Physical Properties

Physical appearance	Off-white to tan powder
Specific gravity	1.57
Bulk density	33 lb/ft ³ (528 kg/m ³)

Applications

VG-69 viscosifier is used to increase viscosity and gel strengths in VERSA oil-base and Nova synthetic-base systems. It has proven effective in drilling, coring, workover and completion fluids. The product is also effective in specialty applications such as casing packs, packer fluids and spotting fluids. Good agitation and sufficient shear are required to develop viscosity when using VG-69 viscosifier to build fresh mud.

Typical concentrations range from 2 to 10 lb/bbl (5.7 to 28.5 kg/m³) for most drilling fluid applications, depending on the base fluid and system requirements. Mineral oils generally require higher concentrations than diesel oils. VG-69 viscosifier will not fully yield by the shear and temperature exposure in a mixing plant or mud pit. Care should be taken not to overtreat with VG-69 viscosifier until the fluid has actually circulated through the well. For system maintenance, VG-69 viscosifier should be added as needed to maintain the flow properties and gel strengths in the desired ranges. Specialty applications such as packer fluids and casing packs typically use concentrations in the 10 to 15 lb/bbl (28.5 to 43 kg/m³) range.

Advantages

- Provides gel structure and viscosity for the suspension of weight materials
- Increases viscosity for improved hole-cleaning capacity
- Improves filter-cake quality and filtration characteristics
- Effective gelling agent in casing packs and packer fluids

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

CAUTION! VG-69 viscosifier contains crystalline silica, the inhalation of which may cause cancer.

Packaging and Storage

VG-69 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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