NOVATEC* M additive is a specialized blend of vegetable fatty acids designed for use as a rheology modifier in the NOVATEC LAO-base system.

NOVATEC M additive increases Low-Shear-Rate Viscosity (LSRV) and gel strengths for improved hole cleaning and reduced sag. NOVATEC M additive may be used in freshly prepared fluid or it can be added as a treatment directly to the active fluid.

Typical Physical Properties
- Physical appearance: Clear, amber viscous liquid
- Odor: Mild
- Specific gravity: 0.90
- Flash point: 351°F (177°C) (PMCC)

Applications
NOVATEC M additive modifies the rheology profile of the NOVATEC system, increasing its shear-thinning and thixotropic characteristics with minimal yield-point and plastic-viscosity changes.

NOVATEC M rheology modifier is used to improve cuttings transport, barite sag and the hole-cleaning capacity of the NOVATEC system in large-diameter or directional wells.

NOVATEC M agent can be used in an existing NOVATEC system, as well as in freshly prepared muds, to increase LSRV and gel strengths.

The concentration required will be dependant on the brine ratio, density and low-gravity solids content of the fluid in use, but will typically be in the range of 0.5 to 2.0 lb/bbl (1.4 to 5.7 kg/m³).

Pilot testing is recommended to determine the actual treatment required to obtain the desired result.

Advantages
- Improves rheological profile and hole-cleaning capacity of the NOVATEC system
- Can be used in existing system or in freshly prepared mud
- Increases LSRV and gel strengths with minimal yield-point and plastic-viscosity changes
- Has application in extended-reach and highly deviated hole configurations

Limitations
- Increased concentrations of NOVATEC M rheology modifier will be required at higher base fluid/brine ratios
- Over-treating can result in excessive gel strengths

Toxicity and Handling
Bioassay information is available upon request.
Handle as an industrial chemical, wearing protective equipment and observing the precautions as described on the Material Safety Data Sheet (MSDS).

Packaging and Storage
NOVATEC M rheology modifier is packaged in 5-gal (18.9-L) cans and 55-gal (208-L) drums.

Store in a cool, dry location away from sources of heat or ignition.
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