

# Suremul Plus

Suremul\* Plus emulsifier, the primary emulsifier in the Rheliant\* Plus nonaqueous mud system, provides excellent emulsion stability, preferential wetting of solids by the continuous phase, filtration control and temperature stability. Suremul Plus emulsifier also can be used in the Rheliant and Nova\* systems. The use of Suremul Plus emulsifier eliminates the need to use a separate wetting or secondary emulsifier agents

## Typical Physical Properties

Physical appearance .....	Amber liquid
Specific gravity .....	0.94
Flash Point.....	87C

## Applications

Designed for use as the primary emulsifier in the Rheliant Plus system, Suremul Plus emulsifier provides a stable emulsion and excellent preferential wetting. Gel strengths are typically lower when using Suremul Plus emulsifier in the Rheliant Plus system than those obtained in the conventional Rheliant system. Suremul Plus emulsifier contributes to HTHP filtration control and temperature stability of the system. It is effective in the presence of contaminants and over a wide range of densities and temperatures. Suremul Plus emulsifier exhibits minimal dispersion tendencies when drilling reactive formations.

Suremul Plus emulsifier is used in the Rheliant Plus, Rheliant \* and NOVA\* systems to enhance the emulsion characteristics of the fluid.

Initial system formulations typically require 8 to 10 lb/bbl (22.8 to 28.5 kg/m3) depending on the desired properties and other components in the system. Daily treatments typically are in the range of 0.1 to 1 lb/bbl (0.3 to 2.85 kg/m3). For high-temperature applications more than 300 °F (150 °C), initial system formulations typically require 9.0 to 14.0 lb/bbl (25.7 to 40 kg/m3)

## Advantages

- Improves emulsion stability
- Functions as an emulsifier and wetting agent
- Provides filtration control
- Minimizes dispersion tendencies of reactive clay solids
- Reduced gel strengths
- Helps maintain HPHT filtrate in a water-free state
- Improves thermal stability and contamination resistance
- Temperature stable to > 400 °F (204 °C)

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## 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

Suremul Plus additive is packaged in a 55-gal (208-L) drum in 550-gal (2131-L) and 275 gal (1000-L) totes.

Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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