

EMI-2718

EMI-2718 viscosifier and rheology modifier is used to supplement the overall rheological profile and improve weight material sag control in RHELIANT and RHELIANT PLUS drilling fluid systems. The product increases low-shear-rate viscosity (LSRV) to improve shear thinning and enhances thixotropy by maintaining the gel strengths structure when fluids are exposed to bottom hole temperatures above 250 °F.

Typical Physical Properties

Physical appearance.....	White liquid
Solubility in NAF.....	Dispersible
Specific gravity.....	1.0
Freezing Point.....	32 °F

Applications

EMI-2718 is substituted for RHETHIK* in RHELIANT AND supplements RHEFLAT PLUS in RHELIANT PLUS drilling fluid systems when bottom hole temperatures exceed 250 °F (121°C). EMI-2718 works in synergy with organophilic clays or other clay minerals to provide elevated yield points, LSRVs and gel strengths to maintain a flat rheological profile. These properties are essential to ensure hole cleaning and enhances weight material suspension especially in deepwater applications.

EMI-2718 recommended concentration for initial make-up is 0.5 –1.5 lb/bbl (1.4 – 4.3 kg/m³) depending on density and base fluid type. Treatments for the circulating system will be dependent upon hole size, hydraulics requirements, OWR/SWR and solids content. Treatments should be between 0.1 and 0.25 lb/bbl.

EMI-2718 additive can have a strong effect on rheology and can generate high viscosity when initially added, pilot testing is highly recommended prior to use. Care should be used to ensure over-treatment does not occur.

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Advantages

- Extends the thermal stability of the RHELIANT and RHELIANT PLUS mud systems up to 350°F (177°C)
- Quickly develops gel structures providing a thixotropic fluid
- Does not viscosify the liquid phase, but performs by maximizing the thixotropy of fluids containing organophilic clay or clay minerals

Limitations

- Should not be used in combination with any other polymeric rheological additives without pilot testing

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).

Packaging and Storage

EMI-2718 additive is packaged in a 55-gal (208 L) drum. 5-gal (18.9 L) pail packaging available upon request.

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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