

RHEDUCE

The RHEDUCE* dispersant is used as a thinner and conditioner in the RHELIANT* 'Flat' rheology system.

It reduces overall viscosity and gel strengths through the action of macromolecules that disperse solids in the mud without the need for dilution or changing the synthetic-to-water ratio.

Typical Physical Properties

Physical appearance	Amber liquid
Specific gravity	0.83 – 0.87
Flash point	>200°F (>93°C)

Applications

RHEDUCE additive is a dispersant and fluid conditioner for the RHELIANT flat-rheology systems that have high viscosity and gel strengths caused by an elevated content of colloidal solids. It reduces viscosity and gel strengths through the action of macromolecules that disperse solids in the mud without the need for dilution or changing the synthetic-to-water ratio when volume increases are undesirable.

Typical RHEDUCE dispersant treatments range from 0.1 to 0.2 lb/bbl (0.3 to 0.6 kg/m³). Pilot testing is recommended prior to treating the system. Incremental additions are recommended at 0.05 lb/bbl (0.14 kg/m³), in order to determine the required concentration and effectiveness of RHEDUCE dispersant.

Over-treatment can cause drastic reductions in LSRV values (6 & 3 rpm readings) and gel strengths that can be difficult to recover or increase afterwards. The product should be added slowly to the system over one complete circulation to ensure an even distribution of the treatment.

Advantages

- Easy-to-mix, fast-acting liquid thinner
- Wide application in all synthetic-base systems

Limitations

- Avoid over-treatment with RHEDUCE dispersant. If barite settling is observed, treatments of VG SUPREME* should be used to restore barite suspension capacity.
- May not provide long-term viscosity reduction; over a period of time or through the incorporation of additional drill solids, viscosity and gels may return to original levels.

Toxicity and Handling

Bioassay information is available upon request.

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

Packaging and Storage

RHEDUCE dispersant is packaged in 55-gal (208-L) drums and 550-gal (2131-L) totes.

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatible materials.



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