

RHEBUILD

RHEBUILD* viscosifier is a temporary viscosifier used, primarily at the mud plant, to provide solids suspension in the RHELIANT* 'Flat' rheology system during transportation of the fluid to location.

The typical concentration range is 0.25-0.5 lb/bbl (0.7-1.4 kg/m³). RHEBUILD viscosifier increases the yield point but degrades rapidly at temperatures greater than 100°F (38°C) once the fluid is pumped downhole. RHEBUILD viscosifier should be added to the system prior to loading the fluid onto the truck or boat.

Typical Physical Properties

Physical appearance	Amber liquid
Specific gravity	0.85 – 1.05
Flash point	>200°F (93°C)

Applications

RHEBUILD viscosifier is used to provide temporary suspension of weight material in freshly prepared fluids and is added to the system prior to transportation to the rig. RHEBUILD viscosifier works with organophilic clay to develop viscosity. It provides sufficient yield point and gel structure to support weight material during transport in temperatures up to 100°F (38°C). Use of this product helps prevent excessive amounts of organophilic clay from being used in the initial formulation which could lead to undesirably high viscosities once the mud is displaced into the well. Since this viscosity diminishes with temperature, it should be added to the mud just before loading onto the boat/truck.

RHEBUILD viscosifier can have a strong effect on low-temperature rheology. Care should be taken to ensure overtreatment does not occur. The recommended treatment for the initial makeup of new fluids is 0.25 – 0.5 lb/bbl (0.7 – 1.4 kg/m³), depending on mud weight.

Once the fluid is circulated in the wellbore, the viscosity provided by this additive will dissipate at temperatures above 100°F (38°C). RHEBUILD viscosifier is added to ensure rheological properties are preserved during transport from the plant to the rig location.

Advantages

- Temporarily develops gel structures providing yield point sufficient to suspend weight material during transport
- Versatile gelling agent the effects of which can be reversed (thinned) with temperature

Limitations

- Viscosity dissipates once circulated in the wellbore at temperatures above 100°F (38°C)

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

RHEBUILD viscosifier is packaged in 55-gal (208-L) steel 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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