

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1015, 1016, 1017, 1018 VISCOSITY REDUCERS FOR FRAC FLUIDS

Product Description

Tramfloc® 1015-1018 formulations are the sodium salts of a polycarboxylic acid and are supplied as mobile liquids, miscible with water in all proportions. These products are produced to a 40% activity level. These formulations are very high charge density anionic polymers with a specific gravity of 1.3 and viscosity between 100–400 cps. These formulations function to reduce fluid losses and stabilize shale while increasing lubricity in the borehole

Uses

Tramfloc® 1015-1018 are proprietary, concentrated products specifically developed to effectively disperse solids and lower the rheology of a wide range of oil and synthetic hydrocarbon based drilling fluids. Tramfloc® 1015-1017 formulations are effective at very low concentrations and have a strong thinning effect on fluids that exhibit high rheological properties due to solids content. Tramfloc® 1015-1017 formulations will produce a substantial reduction in rheology at low concentrations and are effective at temperatures up to and above 350°F.

Applications

The recommended concentrations of Tramfloc® 1015-1018 are dependent upon concentration and type of solids and the severity of the conditions encountered, however, an application of 0.25-5.0 lbs/bbl will be appropriate for most systems. As with all additives to drilling fluid systems, pilot testing should be performed prior to application to establish product compatibility and optimum concentration. The addition of Tramfloc® 1015-1018 formulations to a drilling fluid will generally produce a decrease in the general rheology of the fluid, reducing the viscosity, yield point, gel strengths and low shear rheology. The higher lubricity produced by these formulations reduces drilling torque. This will help maintain borehole integrity in both horizontal and vertical holes.

Feeding

Tramfloc® 1015-1018 should be fed as a dilute solution to the drilling process.

Packaging and Storage

Tramfloc® 1015-1018 is available in drums and bulk. Storage should be in a dry place above 40°F. Tramfloc® 1018 is the granular form of Tramfloc® 1015.

Safety and Health

Spills of this product are extremely slippery. Precautions should be taken to prevent them from entering lakes or streams. Tramfloc® Cleaner 348 can be used to remove residue. The product can be flushed with copious amounts of water and disposed of according to local regulations.

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