

RAPID POLY THIN™

HIGH TEMPERATURE SYNTHETIC MUD DEFLOCCULANT / THINNER

Description:

Rapid Poly Thin™ is a low molecular weight, anionic, synthetic copolymer supplied in a high activity aqueous solution for use as a deflocculant in water based drilling muds. It functions by adsorbing on aggregated clay particles in the drilling fluid and disperses them, reducing viscosity and gel strength. It is a cost effective replacement for heavy metal lignosulfonates, lignites and tannins. The Rapid Poly Thin™ is thermally stable to temperatures in excess of 350°F and tolerant to calcium and alkali metal salts.

ADVANTAGES:

- ⇒ Tolerance to calcium and magnesium contamination
- ⇒ Thermally stable to 350°F
- ⇒ Non Toxic
- ⇒ Functions over a wide pH range
- ⇒ Contributes to fluid loss control

APPLICATION:

The primary application of Rapid Poly Thin™ is to help control the rheology of drilling fluids by reducing viscosity and gel strengths. Due to its contaminant tolerance, Rapid Poly Thin™ is also an excellent additive for drilling green cement, salt or gyp/anhydrite stringers.

Adding a pill or slug of Rapid Poly Thin™ will help remove wall cake prior to completion, stimulation or cementing. It will also function to reduce gel strength and help reduce fluid loss in most mud systems at temperatures up to 400°F.

Rapid Poly Thin™ should only added to mud systems in small doses; it can have a pronounced effect on the rheology of a drilling fluid. Dosage rates will vary from as little as 0.1 to 2.0 pounds per barrel depending upon the solids loading, the contaminant levels and the temperature. The typical starting rate for Rapid Poly Thin™ is ¼ the amount that for lignosulfonates.

PHYSICAL PROPERTIES:

Appearance	Light Amber Liquid
Ionic Charge	Anionic
Density	10.4 to 10.5 lbs / gal
Specific Gravity	1.25 to 1.26
pH(neat)	6.0 to 7.0
Viscosity as Supplied	200 to 750 cps
Flash Point, TCC	None
Freeze Thaw Stability	Excellent

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