

RAPID POLY THIN RD™

HIGH TEMPERATURE SYNTHETIC MUD DEFLOCCULANT / THINNER

Description:

Rapid Poly Thin RD™ is a low molecular weight; anionic, synthetic copolymer supplied in a micro-bead powder form 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 RD™ 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 RD™ is to help control the rheology of drilling fluids by reducing viscosity and gel strengths. Due to its contaminant tolerance, Rapid Poly Thin RD™ is also an excellent additive for drilling green cement, salt or gypsum/anhydrite stringers.

Adding a pill or slug of Rapid Poly Thin RD™ 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 RD™ 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 RD™ is ¼ the amount that for lignosulfonates.

PHYSICAL PROPERTIES:

Appearance	White Micro Bead Powder
Ionic Charge	Anionic
Density	550 +/- 50 gram/liter
pH(neat)	6.0 to 7.0
Solubility	Readily soluble in water.

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