

STAR-DRILL LV



STAR-DRILL LV polymer is a low-molecular-weight, medium-charge polyacrylamide designed to provide cuttings encapsulation and clay dispersion inhibition for use in both fresh and salt water. STAR-DRILL LV improves fluid loss control without adding to fluid viscosity and extends Star-Gel Premium to produce an inhibitive drilling fluid system without affecting mud rheology.

Application

STAR-DRILL LV provides excellent cuttings encapsulation by forming a protective film that prevents cuttings from sticking to each other or on the shaker screens. The mixing process requires less shear than polymers with higher molecular weights and the resulting fluid will pass through shaker screens without blinding. STAR-DRILL LV is also effective in seawater and salt-based fluids.

Advantages

- Provides excellent shale and clay cuttings encapsulation and limits cuttings dispersion
- Minimal contribution to the viscosity of the system and will not blind shaker screens
- For use in seawater, KCl or freshwater systems
- Will not negatively affect rheological profiles

Typical Usages

Typical Amounts of STAR-DRILL LV Added to freshwater			
Drilling Application	lb/100 gal	lb/bbl	kg/m ³
Normal drilling	1.7 - 3.8	0.7 - 1.5	1 - 1.25
Added to STAR-GEL PREMIUM for Inhibition	0.25 - 0.75	0.1 - 0.3	1
Viscosifier for foam drilling	0.5 - 1.5	0.5 - 1.5	1 - 1.25

Properties

Physical Appearance	White, granular powder
Specific Gravity	0.7
pH (0.5% Solution)	6.0 - 8.0
Solubility in water	100%

Packaging

STAR-DRILL LV is packaged in 55-lb (25-kg) multi-wall, paper sacks OR 5 gallon (18.9L) buckets weighing 27.5-lb (12.48-kg)