

STAR-DRILL LIQUID



STAR-DRILL LIQUID is a high-molecular-weight, anionic liquid polymer designed to provide cuttings encapsulation and shale stabilization, and also acting as a viscosifier, friction reducer and flocculant. STAR-DRILL LIQUID can be used in both fresh and saline make up water

Application

STAR-DRILL LIQUID polymer systems provide excellent cuttings encapsulation and improved wellbore stability in fresh, weighted, KCl or NaCl enhanced fluids. Clear-water fluids. STAR-DRILL LIQUID may be used in clear-water, solids-free drilling fluids. It increases viscosity and removes solids by flocculation. Low-Solids, Non-Dispersed (LSND). In reduced- bentonite fluids, STAR-DRILL LIQUID acts as a bentonite extender to increase viscosity, flocculates drill solids for more efficient removal. STAR-DRILL LIQUID viscous sweeps are effective for periodic hole cleaning

Advantages

- Provides excellent cuttings encapsulation and limits cuttings dispersion
- Provides improved shale stabilization
- Enhances the removal of drill solids
- Mixes and yields easily
- Aids in preventing balling on the bit, stabilizers and bottom-hole assembly by coating and lubricating solids
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Typical Usages

Typical Amounts of STAR-DRILL LIQUID Added to freshwater		
Drilling Application	qt/100 gal	L/m ³
Normal	1.75 - 3	2 - 8
Freshwater	1	2.5
Reducing torque & pump pressure	1.5	3.75
Low-Solids, Non-Dispersed (LSND)	0.5	1.25
3% KCl drilling system	2	5
Injection liquid in air/foam application	0.5 - 1	1.25 - 2.5

Properties

Physical Appearance	Cream Colored Liquid
Specific Gravity	1.07 - 1.1
Viscosity (typical)	~500 cP
Flash Point	>200°F (93.3°C)
Pour Point	20° F (-28.9° C)

Packaging

STAR-DRILL LIQUID is packaged in 5 gallon (18.9L) buckets.