

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 flocculent.

STAR-DRILL LIQUID can be used in both fresh and saline make up water.

APPLICATIONS 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 assemblie by coating and lubricating solids

TYPICAL USE

Typical Amounts of STAR-DRILL LIQUID Added to fluid system			
Drilling Application/Desired Results	qt/100 gal	pint/bbl	L/m ³
Typical concentrations	1.75 – 7	0.75 – 3	2.1 – 8.5
Freshwater / Stabilizing water sensitive formations	1	1	2.5
Reducing torque & pump pressure / Increasing hole stability	1.5	1.25	3.75
Low-Solids, Non-Dispersed (LSND)	0.5	0.5	1.25
3% KCl drilling system	2	1.75	5
Injection liquid in air/foam application	0.5 – 1	0.5 – 1	1.25 – 2.5

TYPICAL PROPERTIES

Physical appearance	Cream colored liquid
Viscosity (typical)	~ 500 cP
Specific gravity	1.07 – 1.10
pH (1% solution)	8.0 – 9.0
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