

STAR-DRILL RD



STAR-DRILL RD is a high molecular-weight readily dispersible polymer designed for cuttings encapsulation and shale stabilization developed for use in low solids to weighted muds in fresh and salt make-up water. STAR-DRILL RD acts as a viscosifier, friction reducer, and flocculant.

Application

STAR-DRILL RD may be used in clear-water, solids-free drilling fluids. STAR-DRILL RD enhances solids removal by flocculating low-gravity solids and increasing viscosity while providing cuttings encapsulation and improved wellbore stability. In reduced-bentonite systems, STAR-DRILL RD extends bentonite to increase viscosity, flocculates drill solids for more efficient removal and encapsulates cuttings while improving wellbore stability. STAR-DRILL RD can be used in weighted fluids for cuttings encapsulation, improved wellbore stability, viscosity and improved filter cake integrity. Viscous STAR-DRILL RD sweeps are effective for periodic hole cleaning to help clear accumulated cuttings and maintain a clean hole.

Advantages

- Readily dispersible and does not form “fish eyes”
- Excellent cuttings encapsulation that limits cuttings dispersion
- Improved shale stabilization
- Coats and lubricates solids to aid in preventing balling on the bit, stabilizers and BHA
- Enhances the removal of drill solids

Typical Usages

Typical Amounts of STAR-DRILL RD Added to freshwater			
Drilling Application	lb/100 gal	lb/bbl	kg/m ³
Polymer mud systems	0.6 – 2.4	0.25 – 1	0.7 – 2.85
Mix STAR-DRILL RD directly into the active mud system or premix at higher concentrations in a separate pit or chemical barrel, then blend into the active mud system			
For sweeps, mix STAR-DRILL RD directly in the active system at the suction pit or premix a high concentration in a separate pit and wait for the polymer to fully yield before pumping			

Typical Properties

Physical Appearance	White, granular powder
Specific Gravity	1.25 – 1.40
pH (1% solution)	7.7
Activity	> 90%
Nature of charge	Anionic

Packaging

STAR-DRILL RD is packaged in 50-lb (22.7-kg) multi-wall, paper sacks OR 5 gallon (18.9L) buckets weighing 27.5-lb (12.48-kg)

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IMPORTANT: The information contained herein supersedes all previous versions, and is believed to be accurate and reliable. For the most up to date information, please visit www.northstarfluids.com. NorthStar Fluid Solutions accepts no responsibility for the results obtained through the application of this information. All weights are approximate. NorthStar Fluid Solutions reserves the right to update information without notice.