



Certified to NSF/ANSI 60



STAR-DRILL DRY

STAR-DRILL DRY is a high molecular-weight 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 DRY acts as a viscosifier, friction reducer, and flocculant.

APPLICATIONS

Clear-water fluids STAR-DRILL DRY may be used in clear-water, solids-free drilling fluids. STAR-DRILL DRY enhances solids removal by flocculating low-gravity solids and increasing viscosity while providing cuttings encapsulation and improved wellbore stability.

Low-Solids, Non-Dispersed (LSND) fluids In reduced-bentonite systems, STAR-DRILL DRY extends bentonite to increase viscosity, flocculates drill solids for more efficient removal and encapsulates cuttings while improving wellbore stability.

Weighted fluids STAR-DRILL DRY can be used in weighted fluids for cuttings encapsulation, improved wellbore stability, viscosity and improved filter cake integrity.

Sweeps Viscous STAR-DRILL DRY sweeps are effective for periodic hole cleaning to help clear accumulated cuttings and maintain a clean hole.

ADVANTAGES

- 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 USE

Typical Amounts of STAR-DRILL DRY Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Polymer mud systems	0.6 – 2.4	0.25 – 1	0.71 – 2.85
Mix STAR-DRILL DRY slowly into the active mud system to prevent “fish eyes” or premix at higher concentrations in a separate pit or chemical barrel, then blend into the active mud system			
For sweeps, mix STAR-DRILL DRY 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	100%
Nature of charge	Anionic

PACKAGING

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