

XAN-STAR D



XAN-STAR D is a biopolymer used for increasing viscosity in water-base systems. Small additions provide viscosity and weight-material suspension for all water-base mud systems. XAN-STAR D has the unique ability to produce a fluid that is highly shear-thinning (LSRV).

Application

XAN-STAR D effectively increases viscosity for cuttings transport and suspension in all water base fluids, from highly weighted to low-solids systems, and including freshwater, seawater, salt and heavy-brine systems. Shear-thinning fluids containing XAN-STAR D have low effective viscosities at the high shear rates encountered inside the drill string and at the bit. This low effective viscosity for minimal pressure losses and standpipe pressures allows optimized hydraulics and maximized rates of penetration. Conversely, at the low shear rates experienced in the annulus, XAN-STAR D enables the drilling fluid to have a high effective viscosity for adequately cleaning the well and suspending cuttings.

Advantages

- Highly effective low shear rate viscosifier for improved hydraulics and power at the bit for maximum penetration rates

Typical Usages

Typical Amounts of XAN-STAR D Added to freshwater		
XAN-STAR D should be added slowly through the hopper to prevent lumping and minimize waste. It should be added at the rate of approximately 2 lb (0.91 kg) every 2 min. The time required for the product to yield its ultimate viscosity depends on salinity, temperature and shear		
Drilling Application	lb/100 gal	lb/bbl
For most mud systems	0.6 – 4.75	0.25 – 2
Special fluids and difficult hole-cleaning conditions	9.5	4

Advantages

Physical Appearance	Cream to tan powder
Specific Gravity	1.5

Packaging

XAN-STAR D is packaged in 25lb, multi-wall sacks with 80/plt and 25lb bkts with 48/plt.

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IMPORTANT: The information contained here in 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.