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## HP-HT Lube

### Use:

HP-HT Lube is a high-tech polymer lubricant concentrate specifically developed for highly deviated or horizontal drilling applications for both land and offshore use. HP-HT Lube has a high affinity for metal surfaces, and will adhere tenaciously to drill pipe and drill collars. This guarantees that the lubricant will be concentrated exactly where it is needed, between the pipe and the formation. The pipe can then slide effectively without excessive loss of weight to the bit. HP-HT Lube eliminates torque and drag, prevents differential sticking, and protects the drill pipe from corrosion.

### Physical & Chemical Properties:

Form, @ 70°F	Liquid
Density, (lbs/Gal)	7.68
Flash Point, °F (TCC)	>200
Pour Point, °F	< 0
pH, ( 5% in 3:1 IPA / water)	5.5 - 7.5

### Solubility

Fresh Water and Brines	Dispersible
Xylene and Non-Polar Organics	Soluble

### Compatibility:

Compatible with known drilling and coiled tubing fluids and additives. A compatibility test is always recommended.

### Environment:

Not hazardous to the environment.

### Typical Dosage:

The extreme efficiency of this product allows for low use levels. For a typical 800-1000 bbl system, 2 bbl slowly (one bbl per hour). Maintain the system as needed while drilling. Always add the product s-l-o-w-l-y into the suction pit as close to the suction line as possible. HP-HT Lube is an oil soluble product and will not mix readily with the drilling fluid.

Similarly for Coiled Tubing, typically used at 0.3% to 2% on a continuous basis or spotted as required in stuck-pipe situations.

### Temperature Limitations:

Can be used across a wide temperature range, no lower or upper temperature limitations on performance. Has been effectively used up to BHT of 400 F. Stable up to 450 F.

### Packaging:

330 ga one way totes, 275 ga one way totes, 55 ga drums and bulk tank trucks

### Availability:

Pleasanton, TX; Beasley, TX and Midland, TX

### DoT Classification:

Not Regulated