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## HPHT-W Lube™

### Use:

HPHT-W Lube™ is a high-tech lubricant specifically developed for applications in aqueous environments where normal lubricants degrade into soaps which cause solids and foaming issues. HPHT-W Lube™ is chemically designed to have a high affinity for metal surfaces. This guarantees that the lubricant will be concentrated exactly where it is needed. HPHT-W Lube™ eliminates torque and drag, prevents differential sticking, and protects the system from corrosion, and does not react even under high-temperature and high-pressure conditions.

| Lubricity Coefficient |                  |
|-----------------------|------------------|
| 150 inch-pounds       | 550 inch -pounds |
| 0.019                 | 0.424            |

### Typical Physical Properties:

|                                   |             |
|-----------------------------------|-------------|
| Form, @ 70°F                      | Liquid      |
| Density, (lbs/Gal)                | 7.73        |
| Coefficient of Friction           | 0.06        |
| Flash Point, °F (TCC)             | >200        |
| Pour Point, °F                    | < 30        |
| pH, (5% in 3:1 IPA / water)       | 5.5 - 7.5   |
| Solubility Water and Brine        | Dispersible |
| Solubility Xylene and Mineral Oil | Soluble     |

### Compatibility:

Compatible with known drilling and coiled tubing fluids and additives, and produced waters. 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.

In drilling applications, for a typical 800- 1000 bbl system, add 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. HPHT-W Lube™ is an oil soluble product and will not mix readily with the drilling fluid, but it contains a surfactant package to ensure good dispersion.

For Coiled Tubing, typically used at 0.3% to 2% on a continuous basis or spotted as needed 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:

All Finoric locations

### DoT Classification:

Not Regulated