

ENERLUBE[†]



BENEFITS

Reduces metal-to-metal and metal-to-formation torque and drag without affecting drilling fluid properties

Engineered for water-based systems to perform at low concentrations



APPLICATIONS

Water-based drilling fluids

Coiled tubing and wireline operations

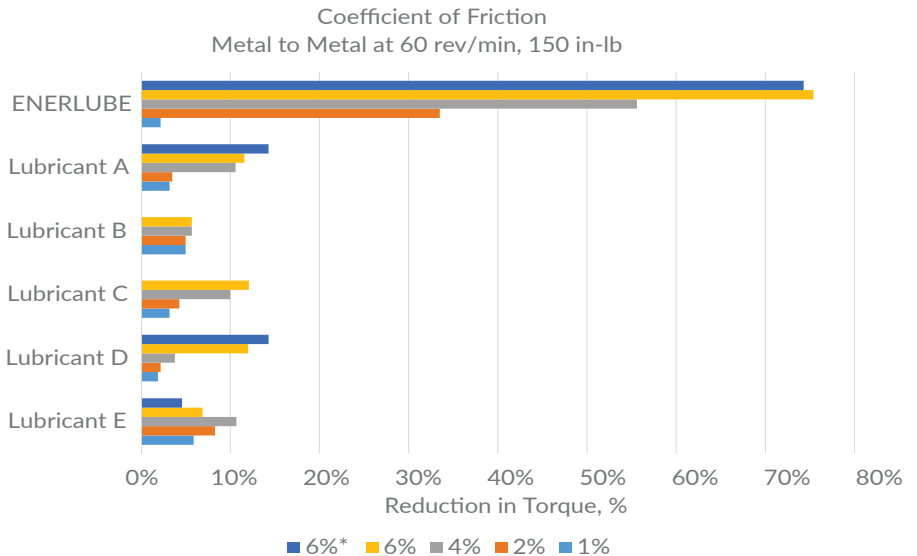
1 - 3% v/v in a continuous circulating system (typical) - add in 0.5% v/v increments



PHYSICAL PROPERTIES

- Appearance: Dark amber liquid
- Specific Gravity: 0.90 - 0.91
- Flash Point: 187°F
- Solubility: Insoluble in water

ENERLUBE is a readily dispersible lubricant designed to minimize the risk of cheesing and greasing in water-based systems.



Coefficient of friction data comparison between ENERLUBE and competing lubricants across various concentrations.

*Reading after 16 hour hot roll at 250°F

TREATMENT RECOMMENDATIONS

ENERLUBE is a liquid additive added to a full circulating system or in concentrated pills. A standard circulating system recommended treatment is up to 3% v/v, adding ENERLUBE in 0.5% v/v increments until torque reduction levels.

Concentrated pills of up to 6% v/v are effective across difficult sections of excessive torque and drag, such as the build section during trips, while running casing or while sliding in highly deviated boreholes. Review these applications with technical services before use.

As with any fluid additive introduction, pilot testing is recommended for new applications.

PACKAGING AND HANDLING

ENERLUBE is available in 275 gallon totes. Handle ENERLUBE as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS). ENERLUBE will oil-wet surfaces and make them slippery. Use caution if spilled and clean immediately.



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Revision 1.00

