

ENERLUBE III[†]



BENEFITS

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

Engineered for water- and brine-based systems to perform at low concentrations



APPLICATIONS

Water- or brine-based drilling and completion fluids, including extended-reach and extreme pressure wells

Coiled tubing and wireline operations

1 - 2% v/v in a continuous circulating system and 2 - 3% v/v in concentrated pills (typical)

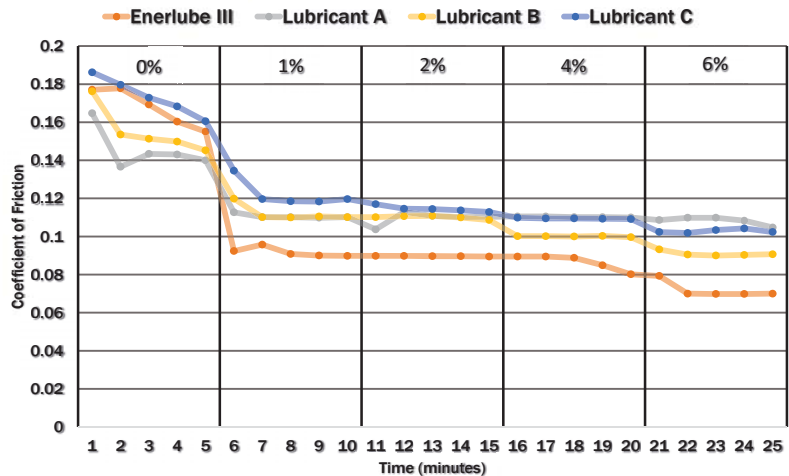


PHYSICAL PROPERTIES

- Appearance: Dark amber liquid
- Specific Gravity: 0.89 - 0.90
- Flash Point: 180°F
- Solubility: Insoluble in water

ENERLUBE III is specially formulated to improve lubricity in water-based drilling and completion fluids.

**EnerLube III Coefficient of Friction Comparison
20%/wt Sodium Chloride Brine**



In this comparison, lubricant is added by injection pump every 5 minutes with continuous measurement of the coefficient of friction. ENERLUBE III provides a minimal coefficient of friction relative to its peers even at low concentrations

TREATMENT RECOMMENDATIONS

ENERLUBE III is a liquid additive added to a full circulating system or in concentrated pills. A standard circulating system recommended treatment is 1.5% v/v, with most applications using between 1 - 2% v/v.

Concentrated pills between 2 - 3% 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.

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

PACKAGING AND HANDLING

ENERLUBE III is available in 55 gallon drums or 275 gallon totes. Handle ENERLUBE III as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).



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Revision 1.00

