

ENERLUBE LITE[†]

LUBRICANT DESIGNED FOR THE ENERLITE DIRECT EMULSION SYSTEM

BENEFITS

- Reduces metal-to-metal and metal-to-formation torque and drag without affecting drilling fluid properties in the EnerLITE[†] system.
- Enhances rate of penetration through improved lubricity.
- Engineered to perform at low concentrations.

APPLICATIONS

- EnerLITE direct emulsion system or other water-based drilling fluids.
- 1 - 2% v/v in a continuous circulating system (typical)
 - add in 0.5% v/v increments.

PROPERTIES

- Appearance: Dark amber liquid
- Specific Gravity: 0.94 - 0.96
- Solubility: Dispersible in water and oil

TREATMENT RECOMMENDATIONS

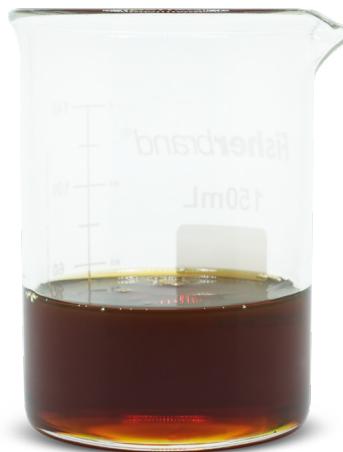
ENERLUBE LITE is a liquid additive added to a full circulating system. A standard circulating system recommended treatment is 1.5% v/v, adding ENERLUBE LITE in 0.5% v/v increments until torque reduction reaches a steady state. Over-treatment can result in elevated viscosity.

LEM testing demonstrates torque reductions approaching 55% compared to an untreated drilling fluid system. Conventional lubricants cause the oil and brine phase of a direct emulsion to separate, breaking the system and compromising mud weight control. ENERLUBE LITE does not induce this catastrophic separation while providing significant lubricity improvement.

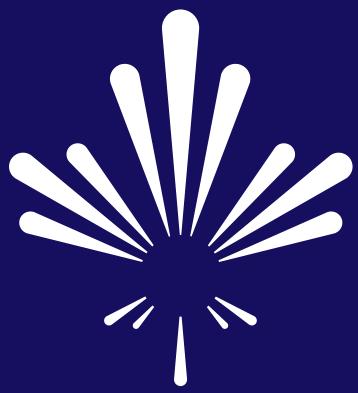
As with any fluid additive introduction, pilot testing is recommended for new applications.

PACKAGING AND HANDLING

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



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