

# LUBE 10170B

**LUBE 10170B<sup>+</sup>** lubricant is an oil-soluble additive specifically engineered for use in all invert-emulsion drilling fluids to decrease the coefficient of friction.

Decreasing the coefficient of friction reduces torque, drag and the potential of differential sticking in the wellbore.

LUBE 10170B lubricant optimizes the performance of oil-base drilling fluids used on ERD wells or wells with complex trajectories that otherwise would be difficult to drill without exceeding the torque and drag limits of the rig. It also is recommended for slim-hole applications to increase the effective weight-on-bit (WOB) and hence ROP.

### Typical Physical Properties

Physical appearance .....	Amber liquid
Odor .....	Characteristic
Solubility in water .....	Partly soluble in water
Specific gravity.....	0.98 g/cm <sup>3</sup> @ 20° C(68° F)
Flash point .....	> 100° C (212° F)

### Applications

LUBE 10170B lubricant is used to reduce coefficient of friction in oil-base muds. Therefore, it is particularly beneficial in ERD and slim-hole wells (either TTRD or coiled tubing) and on wells with complex trajectories where drilling could exceed the torque and drag limitations of the rig. In slim-hole applications, reducing the coefficient of friction can increase the effective WOB, thus delivering higher penetration rates, which often are critical considerations for the economic success of slim-hole projects.

LUBE 10170B lubricant should be added at 1 to 3% concentration by volume depending on the severity of the problem.

Care should be taken when adding LUBE 10170B lubricant to invert-emulsion systems with high solids as an increase of viscosity can occur. Pilot testing is strongly recommended to determine any effects on the system rheological properties for all initial applications and subsequent treatments.

LUBE 10170B lubricant should be added slowly, directly to the mud system by maintaining a small constant stream wherever there is good agitation or through the mixing hopper.

---

### Advantages

- Effective, all-purpose lubricant for all invert-emulsion fluids
- Decreases coefficient of friction, thereby helping reduce torque and drag
- Reduces the potential for and the severity of differential sticking

### Limitations

- Can increase viscosity in high solids invert-emulsion fluids
- For invert emulsion use only

### Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

LUBE 10170B additive is available in 208 l (55 gal) drums.

Store away from sources of heat or ignition. Keep container closed all the time. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.



This information is supplied solely for informational purposes and M-I SWACO makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data. All product warranties and guarantees shall be governed by the Standard Terms of Sale. Nothing in this document is legal advice or is a substitute for competent legal advice.