STEEL LUBE EP

STEEL LUBE* EP extreme-pressure lubricant effectively reduces the coefficient of friction on metal-to-metal contact areas and lessens the possibility of differential wall sticking.

Typical Physical Properties
- Physical appearance: Brown, viscous liquid
- Odor: Acrid
- Specific gravity: 0.94
- Solubility in water: Insoluble
- Flash point: 66°C (146°F)

Applications
STEEL LUBE EP lubricant has application in many types of water-base drilling fluid systems. The material readily mixes into the mud system with a minimum amount of shearing. STEEL LUBE EP lubricant is temperature stable to 149°C (300°F) and performs well in muds encountering high bottom-hole temperatures. The product does not adversely alter the rheological properties of the drilling fluid. A decrease of the fluid-loss can be expected. The performance of STEEL LUBE EP lubricant is unaffected by low-to-medium pH or salinity.

Advantages
- Reduces friction by preferentially oil-wetting the drillstring
- Reduces the coefficient of friction between the formation and the drillstring
- Not sensitive to contaminants, nor does it adversely affect mud properties
- Temperature stable to 149°C (300°F)
- Unaffected by low-to-medium pH or salinity
- Has low foaming potential, compared to other lubricants tested

Limitations
- May cause “greasing” of solids in presence of high calcium
- May be affected by high pH and calcium associated with drilling “green cement”
- Has potential to give off sulfides at temperatures of 149°C (300°F) or greater
Toxicity and Handling
Bioassay information is available upon request.

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

Packaging and Storage
Steel Lube EP lubricant is packaged in 208 l (55 gal) drums.

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.