



## Technical Datasheet

# LUBRICANT

### Description

Lubricant is a high-quality grade of lubricating agent which is applicable to different water-based muds in order to maximize lubricity properties. Lubricant is formulated based on vegetable oil, and contains various fatty acids and alcohols to provide a thin film on BHA, bit and drill pipes in order to minimize torque and drag and increase the rate of penetration.

### Application

Main function of Lubricant is to reduce friction while drilling with water-based drilling fluids and increase rate of penetration. Besides that, possibility of mechanical stuck or differential stuck is highly decreased while using Lubricant.

### Advantages

- Compatible with different types of drilling fluids
- Reduce friction in slide drilling
- Reduce possibility of differential sticking
- Chemically stable in downhole temperature and pressure
- Improve filtration properties
- Maximize rate of penetration
- Environmentally acceptable additive

### Limitations

- May cause high viscosity in base fluid in high solid muds or non-treated bentonite muds

### Treatment

It is recommended to use Lubricant in water-based muds with concentrations of 1 to 3% vol/vol. Considering mud density and required rate of penetrations, applicable concentration may differ. Periodic treatments while drilling is highly recommended.

### Typical Properties

APPEARANCE	Clear amber liquid
SPECIFIC GRAVITY (20 Celsius degree)	0.9-0.95
Pour Point	-15 Celsius degree
Flash Point	>100 Celsius degree

### Packaging

Lubricant is available in 55-Gal Drums.