



## SAT LUBE 450

**SAT LUBE 450** is a premium glycol-based lubricant. It significantly reduces torque and drag and increases rate of penetration in all shales and gumbos. It is particularly effective in horizontal drilling and sliding applications. **LUBE 450** forms a hydrodynamic barrier between the drill pipe and the sidewall, coating shales and cuttings and decreases disintegration. It is dispersible in all types of water-based fluids, it is not affected by contaminants and will not interfere with rheological properties.

### APPLICATIONS

Add to drilling fluids at 2 to 5% for most applications.  
Use more as required for severe torque and drag.

### PHYSICAL PROPERTIES

Specific Gravity	1.03-1.09 @ 25/25C PMCC
Flash Point	221°C
Solubility	Water Dispersible
Appearance	Dark Amber to Black
Physical form	Viscous liquid, Mild odor

### ADVANTAGES

Significantly reduces torque and drag  
Reduces pick-up and slack weight  
Will not grease out  
Inhibits shale  
Non-toxic

### HANDLING

Non Hazardous  
Refer to MSDS for handling information

### PACKAGING

Available in bulk, 275 gallon totes, and 55 gallon drums