

GEOlube[®] 1501

Specially Formulated Torque Reducer

GEOlube[®] 1501

Product Bulletin

GEOlube[®] 1501 can be used in freshwater, salt water and oil-based systems. **GEOlube[®] 1501** reduces the friction between the drill string and walls of the bore hole. Torque and drag can be reduced with the addition of **GEOlube[®] 1501** in the range of 1-3% by volume.

GEOlube[®] 1501 is a specially formulated torque reducer that is both water and oil dispersable.

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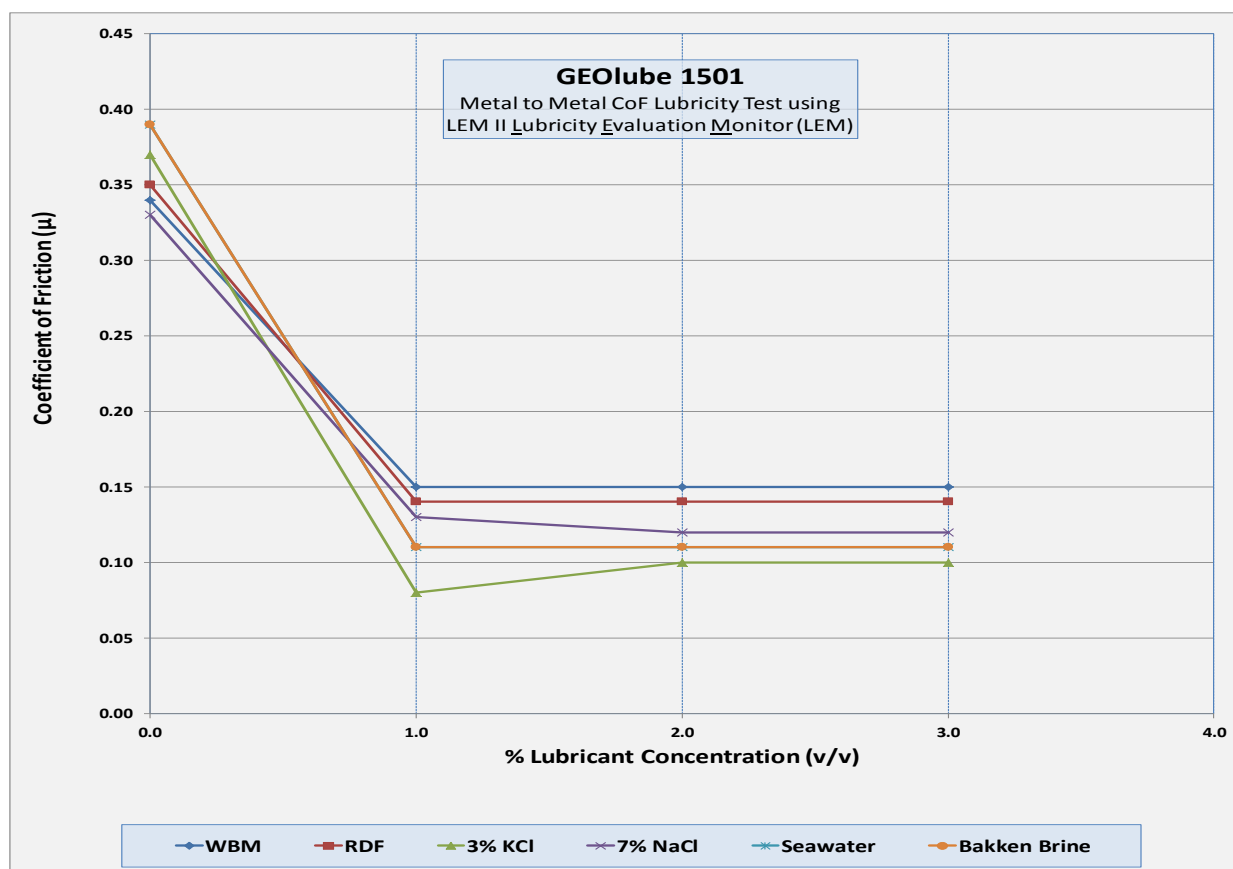
Technical Data	Typical Properties
Appearance	Amber liquid
Solubility; 2% in water @25° C	Forms a stable dispersion
Density, lbs/gal	8.4
Specific Gravity	1.01
pH, 2% solution	6.0
Flash Point, °C	>93

Advantages

GEOlube® 1501:

- ♦ Reduces drilling cost
- ♦ Increases penetration rate
- ♦ Extends lateral penetration
- ♦ Reduces shale sticking

GEOlube® 1501 can be used as an emulsifier for mineral oil by adding 20-50 parts GEOlube® 1501 to 80-50 parts of mineral oil.



This information is true and accurate to the best of our knowledge, but without any guarantee unless explicitly given. Typical properties should not be construed as specifications. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, resulting from the use of these product, data or suggestions.

Properties

96-hour LC₅₀ Toxicity Test for Water Based Drilling Fluid (EPA Method 1619)

96-hour LC ₅₀ Toxicity Test	
Test Report	LC ₅₀ ppm SPP*
3% (w/w) GEOlube 1501 in Generic Mud #7	300,700

* SPP = (Suspended Particulate Phase)

The lubricant when used in water based drilling mud to lubricate, the bit and drill string, pose no adverse effect of mud disposal or discharge or cuttings and drilling mud. No environmental footprint, no regulatory challenges, our lubricant chemistries minimize cost related to discharge or disposal on onshore and or offshore environment. Environmentally friendly lubricant adding premium value to water based drilling fluids.

Solubility:

3% Solubility in;	
Fresh Water	Miscible
Brine (NaCl - 7%)	Dispersable
Brine (NaCl - 23%)	Dispersable
Brine (KCl - 3%)	Dispersable
Seawater	Dispersable
Bakken Brine	Dispersable

Packaging, Storage & Handling

GEOlube® 1501 is shipped in 55-gallon open head lined steel drums. This product may congeal or stratify if cold. If frozen, warm to 122°F and mix well before using.

Additional handling information is contained in a Material Safety Data Sheet (MSDS), which is available upon request.

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