



Mountain Supply and Service's LG 100 is a graphene-based nano lubricant emulsion, metal on metal lubricant for drilling and coil tubing with unique nanoparticles. It is designed to reduce torque and drag while increasing Rate of Penetration (ROP) in all water-based drilling fluids. The unique platelet shaped nanoparticles position themselves between contacting surfaces aiding in movement of the two surfaces. LG 100 quickly lubricates metal surfaces reducing friction and preventing corrosion. It does not grease-out (“cheese out”) in the presence of lime and calcium and does not adversely affect rheology or gel strength.

**APPLICATIONS:**

- As a lubricant additive for use in coil tubing operations.
- As a lubricant additive in drilling operations.
- As a lubricant additive in work-over rig operations.

**BENEFITS/ADVANTAGES:**

- Unique nanoparticle’s specialty platelet shape easily position between two surfaces reducing friction.
- Quickly lubricates.
- Reduces torque and drag.
- Mitigates corrosion.
- Increases ROP.

Percent Reduction in Coefficient of Friction				
	0.5%	1.0%	1.5%	2%
Tap Water	66.5%	71.5%	73.8%	72.6%
DI Water	73.2%	73.5%	73.8%	74.1%
2% KCl	63.5%	71.5%	72.6%	72.6%

*60 rpm and 150 lbs of pressure*

**MIXING GUIDELINES:**

- Typical dosage ranges from 0.5 - 3% by weight.
- Pre-tested rheological properties should dictate the final dosage selection in each particular situation.

**PACKAGING:**

LG 100 is available in 5 Gallon Pails.

Read the Safety Data Sheet for complete handling information before using or storing this product.  
 The SDS is available upon request or on our website at [mountainoilfield.com](http://mountainoilfield.com)