

THE THERMAL-LUBE

READILY BIODEGRADABLE DRILL ROD GREASE

XL9104

September 2024

XL9104 is a readily biodegradable vegetable-based lithium drill rod grease designed to lubricate the outside of drill rods and slides. It is non-toxic, non-bioaccumulating, and readily biodegradable. **XL9104** is fibrous, adhesive, and resists water wash off making it ideal for any drill rod grease application.

XL9104 is formulated to have minimal impact on the environment. It has been produced from naturally renewable resources. **XL9104** does not contain any heavy metals, chlorine, phenols, PCBs or Zinc.

XL9104 contains a unique state of the art polymer blend that has been optimized to reduce vibration and maximize adhesion in the most severe applications.

ADVANTAGES:

- Readily biodegradable, non-toxic, and non-bioaccumulating
- Exceptional resistance to water wash off
- contains extreme pressure additives resulting in a low coefficient of friction
- Corrosion protection
- Compatible with conventional drilling fluids
- Safer than petroleum greases due to its higher flash point

APPLICATIONS:

Because of its excellent biodegradability and very low ecotoxicity, **XL9104** is recommended anywhere an accidental release, or exposure may present an environmental hazard.

Typical applications include geotechnical, oil and gas mining and drilling.

TYPICAL SPECIFICATIONS

Product Code: XL9104	Specifications
N.L.G.I Grade	3
Cone Penetration @ 25C , Worked 60, ASTM D217	220-250
Dropping Point (°C), ASTM D2265	>163
Colour, Visual	Tan/Light Green
Appearance, Visual	Smooth/Fibrous
Type of thickener	Lithium
Base Oil Flash Point, (°C) ASTM D92	340
Base Oil Kinematic Viscosity cSt @ 40°C cSt @ 100°C	43 9
Viscosity Index ASTM D2270	200
Pour Point (°C) ASTM D97	<-20
Biodegradability (%) OECD 301B	Formulated to meet and exceed the OECD 301b standard ≥ 60 %
Aquatic Toxicity. (LC50 mg/L) OECD 203	>5000



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