

# THERMAL-LUBE

## READILY BIODEGRADABLE DRILL ROD GREASE

# XL9104

April 2026

**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, even in cold climates

**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
- Excellent cold temperature adhesion
- 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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