

## **CINN-BIO Rail Curve Grease L-100**

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**Overview:** Interlube CINN-BIO Switch Plate Lubricant L-100 is a biodegradable, eco-friendly, switch plate lube. It contains no hazardous chemicals or chemicals containing volatile organic compounds (VOC). This unique formulation contains additives to enhance the load carrying ability of its base fluid's boundary lubricant properties. It contains a high level of high purity synthetic graphite to provide added lubricity from graphite's superior load carrying capabilities. The unique combination of fluid and solid boundary and EP lubricants allows for easy switch movement and excellent wear protection. The product remains pliable and does not become brittle even under wet, dusty, dirty, hot, gritty and abrasive conditions. It contains no solvents and is designed for low wear and long life.

It is an NLGI 0 grade designed for easy pumping and carry down the tracks **Interlube's CINN-BIO Switch Plate Lubricant L-100** remains pliable over a wide temperature range and does not become brittle even under wet, dusty, frigid, dirty, hot, gritty and abrasive conditions. It contains no solvents and provides both low wear and long life. It is also available as an NLGI 00 Grade for those users in very cold climates who prefer a thinner grease for winter pumping.

**Operational Benefits:** These products offer these competitive advantages to enhance your reliability:

- **Biodegradable Formulation: meets ASTM D5864-05 standard test method for determining aerobic aquatic biodegradability of lubricants; > 60% in 28 days degradation**
- **Non-Hazardous – Non-VOC Formula**
- **Synthetic Graphite Solid Lubricating Particles**
- **Protects from Rust and Corrosion**
- **Reduces Rail to Wheel Friction and Wear**
- **High Flash Point**
- **Effective in Harsh Outdoor Environments**
- **Extremely Water Resistant**
- **Easy to apply Formulation**
- **Long Life and High Performance**

**Application:** If possible before application, the surface of the switch should be swept or scraped to remove dirt, sand, gravel, cinders etc. **CINN-BIO Switch Plate Lubricant L-100** can be brushed, mopped, or sprayed on.

- **Locomotive switch plates**

### **Interlube Corporation**

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**Typical Industries:** This product is commonly used (but not exclusively) in the following industries:

- **Railroads** • **Amusement parks** • **Switchyards**

**CINN-BIO Switch Plate Lubricant L-100**

**Technical Properties**

Property	Method	Typical Results
<b>Appearance</b>	<b>Visual</b>	<b>Clear Fluid</b>
<b>Color</b>	Visual	Black
<b>Viscosity</b>	ASTM D-445	40.0
<b>cSt @ 40°C</b>		9.0
<b>cSt @ 100°C</b>		191
<b>SUS @ 100°F</b>		48
<b>SUS @ 210°F</b>		
<b>Base Oil Viscosity Index</b>	ASTM D-2270	216
<b>Flash Point (°F)</b>	ASTM D-92	>500
<b>Pour Point (°F)</b>	ASTM D-97	-30
<b>Four Ball Weld (kg)</b>	ASTM D-2596	400
<b>Worked Penetration (mm)</b>	ASTM D-217	355 -385
<b>NLGI Grade</b>		0
<b>Low Temperature Torque</b>	ASTM D-4693	12.5
<b>Rust</b>	ASTM D-1743	PASS
<b>Copper Corrosion</b>	ASTM D-4048	1B

*The values shown are typical of current production.  
All of them may vary within tolerable ranges.*

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