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TECHNICAL DATA SHEET

CINN-BIO Rail Curve Grease L-100

Overview: Interlube CINN-BIO Rail Curve Grease L-100 is a biodegradable, eco-friendly, rail curve grease made with a biodegradable vegetable oil, a lithium soap thickener and a high level of high purity synthetic graphite. 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 biodegradable base fluid's boundary lubricant properties. It contains a high level of synthetic graphite to provide added lubricity from graphite's superior load carrying capabilities. It's combination of fluid and solid boundary and EP lubricants allows for excellent load carrying capability and wear protection.

It is an NLGI 0 grade designed for easy pumping and carry down the tracks. **CINN-BIO Rail Curve Grease 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: CINN-BIO RAIL CURVE GREASE L-100 is designed for use on all locomotive rails, especially those in environmentally sensitive areas.

- **Locomotive rails • Roller coasters • Railroad spurs**

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

- **Railroads • Amusement parks • Switchyards**

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Technical Properties

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

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