

## PRODUCT DATA SHEET

# Royal Enviroguard CurveRail Grease

## Superior Bio-based Curve Rail Grease



### PRODUCT DESCRIPTION:

**Royal Enviroguard CurveRail Grease** is an innovative product specifically designed to minimize friction, reduce temperature, and prevent wear between wheel flange and rail especially on curve. This grease covers longer distance on rail track and forms protective layer that is water resistant and last longer. Its unique Lithium-Calcium type thickener provides the performance advantages on both lithium and calcium and makes this grease easily dispensable by rail lubricator and water resistant. This grease is fortified with a synergistic combination of the finest quality of solid and liquid performance additives thus exceeding the requirement of curve rail applications.

**Royal Enviroguard CurveRail Grease** is readily biodegradable, non-toxic, and heavy metal free thus safeguarding the environment while simultaneously matching/exceeding the performance level of mineral oil based curve rail greases.

### KEY FEATURES:

- Biodegradable
- Lithium-Calcium type thickener
- Excellent water resistance
- Low toxicity
- Heavy Metal Free

### CUSTOMER BENEFITS:

- Provides wide temperature operability ( 0 F -18C to 250 F 120C),
- It provides maximum slumpability in mechanical curve lubricators and provides long track coverage.
- Synergistic combination of solid lubricants and polymers provide superior film formation with reduced quantity of grease providing excellent wear and friction protection to the rail track and thus potential energy savings
- Lithium-calcium thickener provides greater resistance to water washout, better pumpability at low temperatures and a high dropping point assures outstanding performance over a wide range of weather conditions compared to the average curve grease.
- Superior storage stability and the oil does not separate from the grease minimizing plugging lubricators or lines.
- Lubricators require minimum adjustment because of the wider operating range.

### APPLICATIONS:

Curve rail tracks, wheel flanges and other environmentally sensitive applications. Though this grease is specifically designed for curve rails; however, it works equally effectively in wire ropes and open gear applications as well.

### PACKAGING:

Totes and Drums

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### Typical Properties

Royal Enviroguard CurveRail Grease		
Product Number	906SB	Test Method
Color	Gray-Black	Visual
Texture	Smooth, Tacky	Visual
Thickener	Lithium-Calcium	-
NLGI Grade	1	-
Worked Penetration	320-340	ASTM D 217
Drop Point ,0 F	+ 350	ASTM D 2265
Viscosity @ 40 C ,cSt	35.5	ASTM D445
Viscosity @ 100 C ,cSt	8.0	
Viscosity @ 100 F ,SUS	179.1	
Viscosity @ 210 F ,SUS	52.95	
Four ball Weld Load , kg	500 kg	ASTM D 2596
Timken , lbs	55	ASTM D 2509
Water Spray off , % retained	60 %	ASTM D 4049

*\*Also available in other NLGI Grades*

*Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.*

#### **Health and Safety:**

*When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, [www.royalmfg.com](http://www.royalmfg.com), or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.*