

TOP OF RAIL GREASE

BIOBASED RAILROAD LUBRICANTS

DESCRIPTION

ECORail®'s aqua-based **TOP OF RAIL COMPOUND (ToRC)** is a sophisticated gellation designed to reduce wheel hunting on tangent tracks resulting in significant reduction in energy use. This product offers anti-wear and extreme pressure performance and is water soluble. It contains moly-graph solids and biobased polymers that fill to repair microcracks on top of rail surfaces thus extending the longevity of tracks. ECORail®'s **Top Of Rail Compound** dries to touch when in thin film exposed to air.

BIOBASED

Based on evaluation of the base oils and the finished products, the ECORail®'s biobased products are designed to be biodegradable, aquatically non-toxic, not-bioaccumulative, and with no impact on plants as determined by known test methods. Nevertheless, the use of all ECORail® products are subject to the local ordinances and ultimate responsibility for impact remains with the users.

APPLICATIONS

- Biobased "Top of Rail" product to modulate friction, reduce noise, fill microscopic cracks on the surface of metals with a mixture of natural polymers to protect against the elements. Product is water soluble and dries to touch when applied as thin film.

BENEFITS

- Reduce wear through superior thin-film protection on top of rail.
- Reduces rolling stock stress.
- Maintain stable viscosity through wide operating temperature range.
- Protect all ferrous metal components from rust and corrosion.
- Biodegrades when released into the environment.
- Meet USDA's "Biobased" product definition for Executive Order 13101
- Conform to EPA's EPP criteria
- Made from renewable USA-grown crop-based oils

PERFORMANCE LEVELS

- Works with all known automatic lubricant dispensers such as SKF/Lincoln, Portec/LB-Foster in the US and other similar units in Europe

TYPICAL PROPERTIES

Color	Gray to Black
Consistency	ISO-220
Upper limit operating temperature	110°C (230°F)
Upper limit operating temperature	-25°C (-13°F)
Base Oil Biodegradability – OECD 301	Pass
Base Oil Aquatic Toxicity – OECD 202	Non-toxic
Base Oil Plant Toxicity - OECD 208	Non-toxic

PACKAGING

- 5-Gallon Pails
- 55-Gallon Drums
- 275-Gallon Totes

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