
KELTRACK® ER

Top-of-Rail Friction Modifier

SECTOR

Rail Infrastructure

AVAILABLE

USA, Canada, Australia, China

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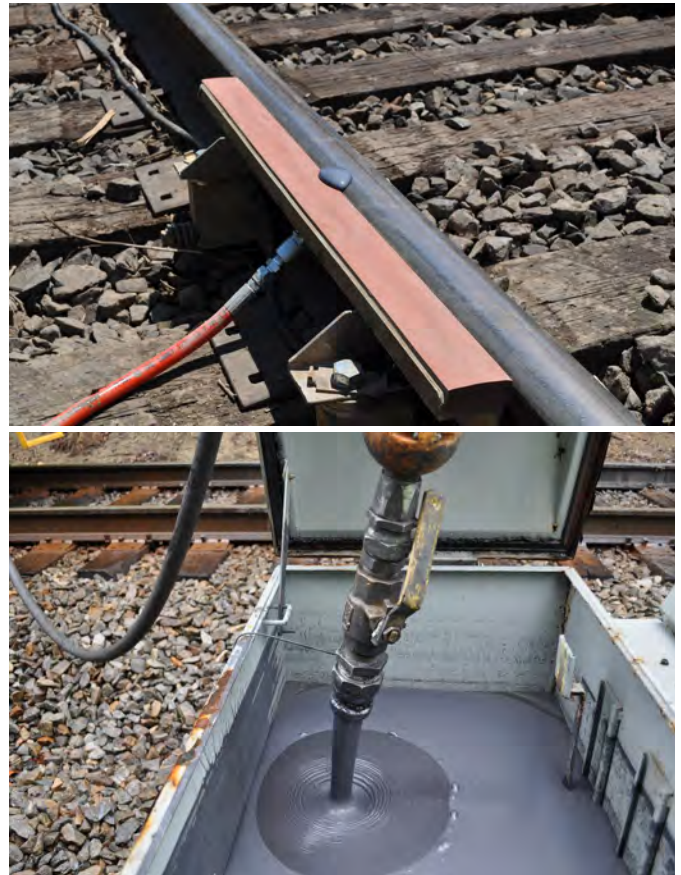
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L.B. Foster Rail Technologies has applied its' knowledge of the wheel/rail interface in conjunction with rigorous scientific analysis and in track field testing to create exceptional top-of-rail (TOR) products, such as **KELTRACK® ER**. Our core objective is to provide our customers with products that not only consistently and reliably protect the wheel/rail interface, but that can also create additional value.

KELTRACK® ER is an engineered composite of inorganic solids, polymers and friction modifying additives that provides excellent protection in the wheel/rail interface. When applied, the material will quickly dry under passing wheels to form a thin friction modifier film that provides excellent wear protection, effective carry down and positive friction characteristics to ensure proper steering in curved track. **KELTRACK® ER** has exceptional product stability and will not separate in storage or lubricator tanks. The product is manufactured in accordance to L.B. Foster's ISO 9001:2015 registration to guarantee exceptional batch-to-batch consistency. Furthermore, **KELTRACK® ER** is environmentally friendly and not expected to bioaccumulate. **KELTRACK® ER** is available in summer and winter grades.



KEY BENEFITS

- > Durable TOR friction modifier which provides excellent wear protection and effective carry down
- > Positive friction characteristics
- > Contains no oil; suitable for river or graded territory
- > Exceptional product stability and batch-to-batch consistency
- > Non-toxic to the aquatic environment

KEY FEATURES

- > Water-based TOR friction modifier
- > Summer and Winter grades
- > Quality and consistency controlled under L.B. Foster Rail Technologies' ISO 9001:2015 certified quality program
- > Available in 5 gallon (19 L) pails or 264 gallon (1000 L) totes; alternative packaging options available
- > Suitable for a variety of lubricator systems

DATASHEET

KELTRACK® ER Top-of-Rail Friction Modifier

TECHNICAL SPECIFICATIONS

	Method	Unit	Summer	Winter
Product Code			508-TF1-19000 (5 gal, 19 L Pail) 508-TF1-RT1000 (264 gal, 1000 L Tote)	509-TF1-19000 (5 gal, 19 L Pail) 509-TF1-RT1000 (264 gal, 1000 L Tote)
Appearance			Gray Thixotropic Gel	Gray Thixotropic Gel
Base			Water	Water
Viscosity at 77 °F (25 °C)	Brookfield RV6 at 20 rpm	cP	22,700 - 24,700	17,000 - 19,000
Density at 77 °F (25 °C)	ASTM D1475	g/cm ³	1.07 - 1.09	1.05 - 1.07
Freezing Point	ASTM D2386-97	°F (°C)	21 °F (-6 °C)	3.2 °F (-16 °C)
pH	ASTM E70		9 - 10	9 - 10
Product Stability¹	Modified ASTM D2243-95		Pass	Pass
Low Temperature Pumpability²	ASTM D1092	PSI	-	63 (at -4°F (-20 °C)) 12 (at 10°F (-12 °C)) Values correspond to good low temperature pumpability
Corrosion Potential³			Low	Low
Aquatic Toxicity	OECD 203		Non-Toxic	Non-Toxic
Flammability			Non-Flammable	Non-Flammable
Environment			Product has low mobility and is not expected to bioaccumulate	Product has low mobility and is not expected to bioaccumulate

NOTES

1. The product stability test accelerates the effect of freeze-thaw cycling on the product stability of water-based materials. The material is cycled from 0 °F (-18 °C) to 158 °F (70 °C) continuously over a week of testing. A pass indicates that no signs of product separation or settling has occurred during the test.
2. Low temperature pumpability using ASTM D1092 uses a low temperature pressure viscometer to assess the pressure required to force cooled material through a capillary. This test is a measure of the pumping ability of the material at colder temperatures.
3. Corrosion potential was determined by partially submerging steel coupons into the material at elevated temperatures(158 °F (70 °C) for 2 weeks. After the test the steel coupons are visually analyzed for rust propagation. A rating of Low corresponds to very minimal corrosion growth in the accelerated test.
4. Recommended storage is within a warehouse at a temperature between 41 °F (5 °C) and 95 °F (35 °C). Avoid exposure to heat sources such as direct sunlight. Keep containers sealed to prevent water loss.
5. For additional technical information, please contact your L.B. Foster representative.

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