
SYNCURVE™

Ultra-High Performance Rail Curve Grease

SECTOR

Rail Infrastructure

AVAILABLE

USA, Canada, Australia

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L.B. Foster Rail Technologies is recognized globally for its expertise in managing friction at the wheel/rail interface. 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 rail curve grease products, such as L.B. Foster's **SYNCURVE™**. Our core objective is to provide our customers with products that not only consistently and reliably lubricate the rail/flange interface, but that can create additional value as well.

SYNCURVE™ provides excellent protection in the wheel flange/gauge face interface. As an exceedingly durable *all-season* rail curve lubricant, customers have the flexibility of either employing a lower application rate for existing spaced lubricators or optimizing (increasing) lubricator spacing using current application rates. In either case, use of **SYNCURVE™** translates to a lower annual grease consumption as compared to traditional rail curve greases. Lower annual grease consumption results in a reduced number of visits and on track time to fill lubricators. As an *all-season* product, **SYNCURVE™** also eliminates the need to inventory both summer and winter grades as part of your gauge face lubrication program.



KEY BENEFITS

- > Exceedingly durable rail curve lubricant which promotes exceptional carry distances or use of lower application rates
- > Lower annual grease consumption leads to less on-track time and labor required to fill lubricators
- > All-season product eliminates the need to carry multiple products
- > Minimal tank cavitation
- > Increased site cleanliness
- > Ultimately biodegradable and non-toxic to aquatic environment

KEY FEATURES

- > Synthetic oil-based, silica-thickened grease with 1.5% PTFE
- > Quality and consistency controlled under L.B. Foster Rail Technologies' ISO 9001 certified quality program
- > Available in 35 lb (15.8 kg) pails (with plastic liner); alternative packaging options available
- > Suitable for a variety of lubricator systems
- > All-season grade

TECHNICAL SPECIFICATIONS

	Method	Unit	All-Season
Product Code			603-SC2-EB2000 (2000 lb Tote) 603-SC2-19000 (35 lb pail)
Appearance			White
NLGI Grade			1
Penetration (Unworked)	ASTM D217	0.1 mm	310
Penetration (Worked)	ASTM D217	0.1 mm	340
Dropping Point	ASTM D2265	°F (°C)	None
Base Oil Flash Point	ASTM D92	°F (°C)	500°F (260°C)
Oil Separation	IP121/DIN51817	%	6
Measured CoF Twin Disc	EN 16028:2012 Annex L - Modified ¹		<0.15
Measured Grease Film Durability - Twin Disc²	EN 16028:2012 Annex L - Modified		Significantly exceeds traditional rail curve greases
Aquatic Toxicity	OECD 202		Non-Toxic
Biodegradability	OECD 301B		Ultimately Biodegradable
Lower Temperature Pumpability³			Product is pumpable to less than -13 °F (-25 °C)

NOTES

1. Methodology has been adapted to apply a known (and consistent) amount of grease.
2. Measured grease film durability (Twin Disc) is a qualitative and relative assessment of rail curve grease durability under simulated load and slip conditions found in the wheel/rail contact. Products that are superior or significantly exceed a (industry) benchmark are viewed as having the ability to offer additional value to customers in the form of lower application rates or increased lubricator spacing. For additional information, please contact your L.B. Foster representative.
3. Low temperature pumpability was tested in simulated application conditions to accurately reflect product performance as opposed to standard ASTM test methods. Product was tested in temperature controlled cold chamber using PROTECTOR® IV application unit equipped with hoses and GREASEGUIDE™ bars.
4. For additional technical information, please contact your L.B. Foster representative.

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Australia
Airlube Australasia
Tel: (08) 9248 8611
sales@airlube.com.au

North America
L.B. Foster Company
Tel: 1-866-523-7245
TotalFrictionManagement@lbfoster.com

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