



TECHNICAL DATA SHEET

SUPER LUBE® RAILROAD GREASE WITH SYNCLON® (PTFE)

March 2018

PRODUCT DESCRIPTION:

Super Lube® Railroad Grease is a patented NLGI Grade 1 grease specially formulated for track side lubricators used to reduce the noise and wear associated with wheel flange to curved rail sections on light rail systems.

The addition of Synclon® (PTFE) enhances the lubricity of the synthetic base oil, and accounts for the exceptionally long tracking results achieved, which reduces the number of lubricators required, resulting in an overall cost savings.

Super Lube® Railroad Grease is NSF Food Grade rated H1. Safe for incidental food or potable water contact. Super Lube® Railroad Grease offers an environmentally friendly alternative to the typical curve grease.



FEATURES:

- ❖ Clear and Clean
- ❖ Non-staining
- ❖ Does not dry
- ❖ Outstanding tracking
- ❖ Excellent lubricity
- ❖ Good low temperature fluidity
- ❖ High viscosity index
- ❖ Excellent anti-wear performance
- ❖ Good storage stability
- ❖ Good pumpability
- ❖ Reduces noise
- ❖ Reduces friction
- ❖ Prevents rust and corrosion
- ❖ Environmentally friendly
- ❖ Biodegradable
- ❖ Kosher certified
- ❖ NSF Registered (H1), #149704

TYPICAL APPLICATIONS:

- ❖ Locomotive wheel flanges
- ❖ Curved railroad tracks
- ❖ Door openers
- ❖ Door latches
- ❖ Electric motor bearings
- ❖ Couplers
- ❖ Rail switches

PACKAGE SIZES:

Part No.	Description
41035	35 lb. Pail
41040	40 lb. Pail
41400	400 lb. Drum



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PROPERTIES:

Test	Test Method	Rating
NLGI Grade:	ASTM D217	1
Color:		Translucent White
Temperature Range:		-45°F to 450°F (-43°C to 232°C)
Viscosity (Base Oil)		
cSt @ 100°C:	ASTM D445	8
cSt @ 40°C:	ASTM D445	350
Specific Gravity:	ASTM D1298	.89 @ 60°F
Dropping Point:	ASTM D2265	>550°F (287°C)
Penetration, worked (60 strokes)	ASTM D217	310 - 340 mm/10
Four Ball Test		
Load wear index:	ASTM 2596	70.63 kgf
Weld point:		400 kg
Four ball EP Scar Diameter:	ASTM D2266	< 1.0 mm
Low Temperature Torque @ -54°C		
Starting:	ASTM D1478	0.27 N-m (0.37 in-lbs.)
10 minute running:	ASTM D1478	0.08 N-m (0.11 in-lbs.)
1 hour running:	ASTM D1478	0.006 N-m (0.09 in-lbs.)
Salt Spray Test (100 hrs.)	ASTM B117	Pass
Dielectric Loss:	ASTM D924	1.2 x 10 <sup>12</sup>
Dielectric Resistivity:	ASTM D1169	1.7 x 10 <sup>14</sup>
Dielectric Constant:	ASTM D924	2.5
Oil Separation:	ASTM D6184	< 2%
Evaporation Loss		
22 hrs. @ 212°F (100°C):	ASTM D972	<1%
Oxidation Stability - 100 hrs.	ASTM D942	0.5 psi drop
Timken OK Load:	ASTM 2509	40 lbs.
Flash Point:	ASTM D92	>428°F (220°C)
Fire Point:	ASTM D92	>572°F (300°C)
Wheel Bearing Leakage:	ASTM D1263	< 1.0 g
Water Washout (max.):	ASTM 1264	< 1%
Copper Corrosion - 24 hrs. @ 100°C	ASTM D4048	1B, shiny
Acid Number:	ASTM D664	.5 mg KOH/g
Biodegradability	CEC-L33-T82	50% degradability in 28-35 days 60+% degradability in 56 days



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**DIRECTIONS:**

- When filling track side wheel flange lubricators, remove any dirt and debris from the grease reservoir.
- Open pail or drum cover and pour grease into reservoir.
- Be careful not to contaminate grease.
- If oil is visible on surface, use a spatula and mix oil into grease.

**SHELF LIFE / WARRANTY:**

Super Lube® products have a five (5) year recommended shelf life when stored in the original container and in reasonable ambient conditions. The warranty period is twenty-four (24) months from the date of purchase. For complete information visit [www.super-lube.com/what-is-the-shelf-life-ezp-320.html](http://www.super-lube.com/what-is-the-shelf-life-ezp-320.html).



See Safety Data Sheet (SDS) for further details regarding safe use of this product.



Made in USA

The information provided in this Technical Data Sheet, including the recommendations for use and application of the product are based on our knowledge and experience of the product as of the date of this data sheet. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Synco Chemical Corporation is, therefore not liable for the suitability of our product for the production processes and conditions in respect for which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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