

## TECHNICAL DATA SHEET

### SUPER LUBE® HIGH TEMPERATURE EXTREME PRESSURE GREASE WITH SYNCOLON®

October 2024

#### PRODUCT DESCRIPTION:

Super Lube® High Temperature Extreme Pressure Grease with Syncolon® is a grease with an extremely high concentration of Syncolon® and an operating temperature range from -45°F to 475°F.

Super Lube® High Temperature Extreme Pressure Grease is ideal for use in manufacturing facilities where safety, thermal stability, performance and extended service life are critical lubricant requirements.

Super Lube® High Temperature Extreme Pressure Grease is a NSF listed Food Grade lubricant, rated H1 for incidental food contact.



#### FEATURES:

- |  |   |   |
|--|---|---|
| ❖ Dielectric   | ❖ No oil separation   | ❖ Creates a highly concentrated Syncolon® barrier |
| ❖ Food grade and clean                                   | ❖ Superior E.P. characteristics   | ❖ Kosher certified                                |
| ❖ Maximum temperature up to 650°F, intermittently        | ❖ Good film strength  | ❖ NSF Registered (H1), #141972                    |
| ❖ Excellent resistance to salt water and most detergents | ❖ Outlasts conventional greases   |   |
| ❖ Resists corrosive chemicals                            | ❖ Meets or exceeds API 5CT section 5A3 requirements for grease-like compounds |   |
| ❖ Will not dry out or form harmful abrasive deposit      |   |   |

#### TYPICAL APPLICATIONS:

- |                                    |                                       |                       |
|------------------------------------|---------------------------------------|-----------------------|
| ❖ Plain and anti-friction bearings | ❖ Oven damper controls®               | ❖ Robotic equipment   |
| ❖ Tenter frames                    | ❖ Corrugating machinery               | ❖ Paper Mills         |
| ❖ Bakery conveyor bearings         | ❖ Sluice gates                        | ❖ Textile Machines    |
| ❖ Blower fan bearings              | ❖ Wind turbines (e.g. Blade bearings) | ❖ Electric Fan Motors |
| ❖ Plywood drying ovens             | ❖ 5 <sup>th</sup> Wheel               | ❖ Printing Machines   |
| ❖ Food processing equipment        | ❖ Generator bearings                  | ❖ Drill Pipes         |
| ❖ High temperature ovens           | ❖ Food processing equipment           | ❖ OCTG Connections    |
| ❖ Furnace door hinges              | ❖ Cleanroom applications              | ❖ Drill Collars       |
|                                    |                                       | ❖ Tool Joints         |

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GREASE WITH SYNCOLON®**

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**PACKAGE SIZES:**

Part No.	Description
<b>70006</b>	6 cc. Syringe
<b>71150</b>	14.1 oz. (400 gram) Cartridge
<b>71160</b>	14.1 oz. (400 gram) Canister
<b>70050</b>	5 lb. Pail
<b>70300</b>	30 lb. Pail
<b>70120</b>	120 lb. Keg
<b>70400</b>	400 lb. Drum

**PROPERTIES:**

Test	Test Method	Rating
<b>NLGI Grade:</b>	ASTM D1092	2
<b>NLGI Classification:</b>	ASTM D4950	GC-LB*
<b>Color:</b>		Translucent White
<b>Temperature Range</b>		
<b>Continuous:</b>		-45°F (-42°C) to 475°F (246°C)
<b>Intermittent:</b>		-45°F (-42°C) to 650°F (343°C)
<b>Viscosity (Base Oil)</b>		
<b>cSt @ 100°C:</b>	ASTM D445	8
<b>cSt @ 40° C:</b>	ASTM D445	45
<b>Specific Gravity:</b>	ASTM D1298	.89 @ 60°F
<b>Water, PPM:</b>	ASTM D1744	35 ppm
<b>Tan:</b>	ASTM D974	0.04 maximum
<b>Dropping point:</b>	ASTM D2265	>500°F
<b>Penetration-worked 60 strokes</b>	ASTM D217	265 – 295 mm/10
<b>Four Ball Test</b>		
<b>Load Wear Index:</b>	ASTM D2596	109 kg
<b>Weld Point:</b>	ASTM D2596	620 kg
<b>Four Ball EP Test Scar Diameter:</b>	ASTM D2266	< 1.0 mm
<b>Salt Spray Test (100 hrs.):</b>	ASTM B117	Pass
<b>Dielectric Loss:</b>	ASTM D924	$1.2 \times 10^{12}$
<b>Dielectric Resistivity:</b>	ASTM D1169	$1.7 \times 10^{14}$
<b>Dielectric Constant:</b>	ASTM D924	2.5
<b>Oil Separation:</b>	ASTM D6184	< 2%
<b>Evaporation Loss</b>		

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<b>22 hrs. @ 212°F (100°C):</b>	ASTM D972	< 1%
<b>Oxidation Stability, 100 hrs.:</b>	ASTM D942	6.9 kPa
<b>Timken OK load</b>	ASTM D2509	50 lbs.
<b>Flash Point:</b>	ASTM D92	>500°F (260°C)
<b>Fire Point:</b>	ASTM D92	>572°F (300°C)
<b>Wheel Bearing Leakage:</b>	ASTM D1263	0.2 g
<b>Water Washout:</b>	ASTM 1264	< 3.0%
<b>Copper Corrosion 24 hrs. @ 100°C</b>	ASTM D4048	1B, Shiny
<b>Acid Number:</b>	ASTM D664	.5 mg KOH/g

\*GC-LB Wide temperature grease for use in components such as bearings, chassis and universal joints in passenger cars, trucks and other vehicles under mild and severe duty. This includes vehicles operated under frequent stop-and-go service (buses, taxis urban police cars, etc.), or under severe braking service (trailer towing, heavy loading, mountain driving, etc.) (see ASTM D4950).

### 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 bulletin. 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. Kano Laboratories LLC 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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