



TECHNICAL DATA SHEET

SUPER LUBE® HIGH TEMPERATURE EXTREME PRESSURE GREASE WITH SYNCOLON® (PTFE)

August 2018

PRODUCT DESCRIPTION:

Super Lube® High Temperature Extreme Pressure Grease with Syncolon® (PTFE) is a grease with an extremely high concentration of Syncolon® (PTFE) and an operating temperature range from -30°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
- ❖ Food grade and clean
- ❖ Maximum temperature up to 650°F, intermittently
- ❖ Excellent resistance to salt water and most detergents
- ❖ Resists corrosive chemicals
- ❖ Will not dry out or form harmful abrasive deposit
- ❖ No oil separation
- ❖ Superior E.P. characteristics
- ❖ Good film strength
- ❖ Outlasts conventional greases
- ❖ Creates a highly concentrated Syncolon® (PTFE) barrier
- ❖ Environmentally friendly
- ❖ Biodegradable
- ❖ Kosher certified
- ❖ NSF Registered (H1), #141972

TYPICAL APPLICATIONS:

- ❖ Plain and anti-friction bearings
- ❖ Tenter frames
- ❖ Bakery conveyor bearings
- ❖ Blower fan bearings
- ❖ Plywood drying ovens
- ❖ Food processing equipment
- ❖ High temperature ovens
- ❖ Furnace door hinges
- ❖ Oven damper controls
- ❖ Corrugating machinery
- ❖ Sluice gates
- ❖ Wind turbines (e.g. Blade bearings)
- ❖ 5th Wheel
- ❖ Generator bearings
- ❖ Food processing equipment
- ❖ Cleanroom applications
- ❖ Robotic equipment



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PACKAGE SIZES:

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

PROPERTIES:

| Test | Test Method | Rating |
|----------------------------------|-------------|--------------------------------|
| NLGI Grade: | ASTM D1092 | 2 |
| NLGI Classification: | ASTM D4950 | GC-LB* |
| Color: | | Translucent White |
| Temperature range | | |
| Continuous: | | -30°F (-34°C) to 475°F (246°C) |
| Intermittent: | | -30°F (-34°C) to 650°F (343°C) |
| Viscosity (Base Oil) | | |
| cSt @ 100°C: | ASTM D445 | 8 |
| cSt @ 40° C: | ASTM D445 | 45 |
| Specific Gravity: | ASTM D1298 | .89 @ 60°F |
| Water, PPM: | ASTM D1744 | 35 ppm |
| Tan: | ASTM D974 | 0.04 maximum |
| Dropping point: | ASTM D2265 | >500°F |
| Penetration-worked 60 strokes | ASTM D217 | 265 – 295 mm/10 |
| Four Ball Test | | |
| Load Wear Index: | ASTM D2596 | 109 kg |
| Weld Point: | ASTM D2596 | 620 kg |
| Four Ball EP Test Scar Diameter: | ASTM D2266 | < 1.0 mm |
| Salt Spray Test (100 hrs.): | ASTM B117 | Pass |
| Dielectric Loss: | ASTM D924 | 1.2 x 10 ¹² |
| Dielectric Resistivity: | ASTM D1169 | 1.7 x 10 ¹⁴ |
| Dielectric Constant: | ASTM D924 | 2.5 |
| Oil Separation: | ASTM D6184 | < 2% |
| Evaporation Loss | | |
| 22 hrs. @ 212°F (100°C): | ASTM D972 | < 1% |



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|---|-------------|--|
| Oxidation Stability, 100 hrs.: | ASTM D942 | 6.9 kPa |
| Timken OK load | ASTM D2509 | 50 lbs. |
| Flash Point: | ASTM D92 | >428°F (220°C) |
| Fire Point: | ASTM D92 | >572°F (300°C) |
| Wheel Bearing Leakage: | ASTM D1263 | 0.2 g |
| Water Washout: | ASTM 1264 | < 3.0% |
| 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 |

*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.



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. 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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