



## TECHNICAL DATA SHEET

### SUPER LUBE® SILICONE DIELECTRIC GREASE

April 2018

#### PRODUCT DESCRIPTION:

Super Lube® Silicone Dielectric Grease is a non-curing silicone compound ideal for sealing, protecting and insulating electrical components and connectors. It is waterproof and protects against moisture and other contaminants in electrical connections.

Super Lube® Silicone Dielectric Grease is a NSF registered Food Grade lubricant, rated H1 for incidental food contact. Meets former USDA (H1) guidelines.

Super Lube® Silicone Dielectric Grease is translucent white, clean and clear in appearance and exhibits high dielectric strength. It is compatible with most plastics and rubbers.



#### FEATURES:

- ❖ Vacuum grease
- ❖ High dielectric strength
- ❖ Food grade and clean
- ❖ Seals out moisture
- ❖ Lubricates rubbers and plastics
- ❖ Heavy consistency
- ❖ Protects electrical components from corrosion
- ❖ Prevents electrical arcing
- ❖ Wide temperature range
- ❖ Compatible with majority of rubber and plastic compounds.
- ❖ Environmentally friendly
- ❖ Biodegradable
- ❖ Kosher certified
- ❖ NSF Registered (H1), #141973

#### TYPICAL APPLICATIONS:

- ❖ Electrical insulation, damping and lubrication of brass components and O-rings.
- ❖ Protects battery cables, spark plugs and distributor caps.
- ❖ Cable connections
- ❖ Terminal strips and disconnects
- ❖ Vacuum/Chamber Sealant
- ❖ Food processing equipment
- ❖ Lubricates and moisture proofs

#### PACKAGE SIZES:

| Part No. | Description        | Part No.  | Description        |
|----------|--------------------|-----------|--------------------|
| 91003    | 3 oz. Tube         | 91400     | 400 lb. Drum       |
| 91015    | 400 gram Cartridge | 91015/UV* | 400 gram Cartridge |
| 91016    | 400 gram Canister  | 91016/UV* | 400 gram Canister  |
| 91005    | 5 lb. Pail         | 91005/UV* | 5 lb. Pail         |
| 91030    | 30 lb. Pail        | 91030/UV* | 30 lb. Pail        |
| 91120    | 120 lb. Keg        |           |                    |

\*UV tracer added validates the existence of the lubricant.



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**PROPERTIES:**

| Test  | Test Method | Rating   |
|---|-------------|--|
| <b>NLGI Grade:</b>  | ASTM D1092  | 2  |
| <b>Color:</b>   |             | Translucent white  |
| <b>Temperature Range:</b>   |             | -40°F to 500°F (-40°C to 260°C)                                  |
| <b>Viscosity (Base Oil)<br/>cSt @ 25°C:</b>                       | ASTM D445   | 5000   |
| <b>Specific Gravity<br/>@ 25°C (77°F):</b>                        | ASTM D1298  | 0.90   |
| <b>Penetration,<br/>Worked 60 strokes:</b>                        | ASTM D217   | 265 – 295  |
| <b>Vapor Pressure @ 200°C<br/>(Pascal):</b>                       |             | 1.33   |
| <b>Specific Heat (Joules/g,°C)</b>                                |             | 1.5  |
| <b>Thermal Conductivity<br/>(Watt/m.°C):</b>                      |             | 0.16   |
| <b>Dielectric Strength<br/>(Volts/mil, 50 mil gap):</b>           | CTM 0114    | 400  |
| <b>Dielectric Loss:</b>   | ASTM D924   | 1.2 x 10 <sup>12</sup>   |
| <b>Dielectric Resistivity<br/>@ 25°C (ohm/cm):</b>                | ASTM D1169  | 1 x 10 <sup>15</sup>   |
| <b>Dielectric Constant<br/>@25°C between 0.5 and<br/>100 kHz:</b> | ASTM D924   | 2.8  |
| <b>Oil Separation,<br/>21 hrs. / 100°C:</b>                       | ASTM D6184  | <1%  |
| <b>Evaporation Loss<br/>22 hrs. @ 212°F (100°C)</b>               | ASTM D972   | < 1%   |
| <b>Flash Point:</b>   | ASTM D92    | >572°F (300°C)   |
| <b>Melting Point:</b>   |             | No Melt  |
| <b>Water Washout:</b>   | ASTM D1264  | < 1%   |
| <b>Biodegradability:</b>  | CEC-L33-T82 | 50% degradability in 28-35 days<br>60+% degradability in 56 days |

**DIRECTIONS:**

- Clean mating surfaces.
- Apply evenly to surfaces.



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#### 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. 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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