

TECHNICAL DATA SHEET

SUPER LUBE® SILICONE DIELECTRIC AND VACUUM GREASE

March 2024

PRODUCT DESCRIPTION:

Super Lube® Silicone Dielectric and Vacuum Grease is a specially formulated non-curing silicone compound that exhibits superior performance in both electrical and vacuum applications.

Super Lube® Silicone Dielectric and Vacuum Grease seals, protects, and insulates electrical components and connectors. It is waterproof and provides a barrier against moisture and other contaminants in many types of electrical contact points.

Super Lube® Silicone Dielectric and Vacuum Grease helps reduce the overall leak rate in vacuum applications by filling the spaces of the gland's surfaces and lowering permeation rates of the elastomer. It outperforms in both vacuum and pressure systems.

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

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



FEATURES:

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|--|---|--|
| ❖ High dielectric strength | ❖ Protects electrical components from corrosion | ❖ High resistance to high and low temperatures |
| ❖ Food grade and clean | ❖ Prevents electrical arcing | ❖ Compatible with majority of rubber and plastic compounds |
| ❖ Seals out moisture | ❖ Wide temperature range | ❖ Kosher certified |
| ❖ Resistant to thermal degradation | ❖ Low volatility | ❖ NSF Registered (H1), #141973 |
| ❖ Heavy consistency | ❖ Low outgassing | |
| ❖ Low vapor pressure | | |
| ❖ High resistance to water and chemicals | | |

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TYPICAL APPLICATIONS:

- ❖ Electrical insulation, damping and lubrication of brass components
- ❖ Electrical assemblies and terminals
- ❖ Rubber gaskets
- ❖ Vacuum and Pressurized Systems
- ❖ Control valves
- ❖ Flow Meter Bearings
- ❖ Battery cables, spark plugs and distributor caps
- ❖ Sealing and insulation
- ❖ Light bulbs
- ❖ Cable connections
- ❖ Terminal strips and disconnects
- ❖ Stopcock grease
- ❖ Motorized actuators
- ❖ Glass to rubber boundaries
- ❖ Ceramic plug gaskets
- ❖ Sealing of chemical process equipment
- ❖ Food processing equipment
- ❖ Water treating equipment
- ❖ Sealing of vacuum pressure systems
- ❖ Plug valves

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.

PROPERTIES:

Test	Test Method	Rating
NLGI Grade:	ASTM D1092	2
Color:		Translucent white
Temperature Range:		-40°F to 500°F (-40°C to 260°C)
Viscosity (Base Oil) cSt @ 25°C:	ASTM D445	5000
Specific Gravity @ 25°C (77°F):	ASTM D1298	1.07
Penetration, Worked 60 strokes:	ASTM D217	265 – 295
Specific Heat (Joules/g,°C)		1.5
Thermal Conductivity (Watts/Meter K):	PLTL-73	0.16

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Dielectric Strength (Volts/mil, 50 mil gap):	ASTM D149	777
Dielectric Loss:	ASTM D924	1.2×10^{12}
Dielectric Resistivity @ 25°C (ohm/cm):	ASTM D1169	1×10^{15}
Dielectric Constant @25°C between 0.5 and 100 kHz:	ASTM D924	2.8
Oil Separation, 21 hrs. / 100°C:	ASTM D6184	0%
Evaporation Loss 22 hrs. @ 212°F (100°C)	ASTM D972	0.4%
Vapor Pressure @ 25°C:		$5 \times 10^{(-10)}$ Torr
Bleed:		NIL
Outgassing Characteristics:	ASTM E595	TML < 1.0% CVCM < 0.1%
Flash Point:	ASTM D92	>572°F (300°C)
Melting Point:		No Melt
Water Washout:	ASTM D1264	< 1%

DIRECTIONS:

- Clean mating surfaces.
- Apply evenly to surfaces.

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.



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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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