



TECHNICAL DATA SHEET

SUPER LUBE® O-RING SILICONE GREASE

April 2018

PRODUCT DESCRIPTION:

Super Lube® O-Ring Silicone Grease is a non-curing silicone compound that is designed for lubricating, sealing and conditioning O-rings and other regulator and valve system components. It is compatible with most plastics and rubbers. It is waterproof and protects against moisture and oxidation. Ideal for vacuum systems, breathing apparatus, hoses and seals.

Using Super Lube® O-Ring Silicone Grease during installation helps protect an O-ring from damage by abrasion, pinching or cutting. It also helps to seat the O-ring properly, speeds up assembly operations and improves automated assembly.

Lubricating the O-ring with Super Lube® O-Ring Silicone Grease in dynamic, pneumatic applications will extend the equipment's service life.

Super Lube® O-Ring Silicone Grease will help reduce the overall leak rate in vacuum applications by filling the spaces of the gland's surfaces and lowering permeation rates of the elastomer.

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



FEATURES:

- ❖ Clean O-ring lubricant
- ❖ Vacuum grease
- ❖ Food grade and clean
- ❖ Wide temperature range
- ❖ Seals out moisture
- ❖ High dielectric strength
- ❖ Heavy consistency
- ❖ Preserves and lubricates rubbers and plastics
- ❖ Compatible with majority of rubber and plastic compounds
- ❖ Environmentally friendly
- ❖ Biodegradable
- ❖ Kosher certified
- ❖ NSF Registered (H1), #156444

TYPICAL APPLICATIONS:

- ❖ O-rings, static and dynamic
- ❖ Vacuum/chamber sealant
- ❖ Food processing equipment
- ❖ Pneumatic systems
- ❖ Seals
- ❖ Pressure plug valves
- ❖ Water softener and faucet valves
- ❖ Pool pumps and filter seals
- ❖ Weather stripping
- ❖ Rubber gaskets
- ❖ Flashlights
- ❖ Diving equipment



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PACKAGE SIZES:

Part No.	Description
93003	3 oz. Tube
93016	400 gram Canister

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	0.90
Penetration, Worked 60 strokes:	ASTM D217	265 – 295
Vapor Pressure @ 200°C (Pascal):		1.33
Specific Heat (Joules/g, °C)		1.5
Thermal Conductivity (Watt/m.°C):		0.16
Dielectric Strength (Volts/mil, 50 mil gap):	CTM 0114	400
Dielectric Loss:	ASTM D924	1.2 x 10 <sup>12</sup>
Dielectric Resistivity @ 25°C (ohm/cm):	ASTM D1169	1 x 10 <sup>15</sup>
Dielectric Constant @25°C between 0.5 and 100 kHz:	ASTM D924	2.8
Oil Separation, 21 hrs. / 100°C:	ASTM D6184	<1%
Evaporation Loss 22 hrs. @ 212°F (100°C)	ASTM D972	< 1%
Flash Point:	ASTM D92	>572°F (300°C)
Melting Point:		No Melt
Water Washout:	ASTM D1264	< 1%
Biodegradability:	CEC-L33-T82	50% degradability in 28-35 days 60+% degradability in 56 days



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**DIRECTIONS:**

- Clean mating surfaces.
- Apply evenly to surfaces.
- Do not mix with other greases

**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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