

TECHNICAL DATA SHEET

SUPER LUBE® O-RING SILICONE GREASE (Compound)

March 2024

PRODUCT DESCRIPTION:

Super Lube® O-Ring Silicone Grease is a specially formulated non-curing silicone compound that is designed for lubricating, sealing and conditioning O-rings and other regulator, vacuum and valve system components. It is compatible with most plastics and rubbers. In addition, the product is waterproof, protects against moisture, oxidation and is heat stable.

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 an NSF registered Food Grade lubricant, rated H1 for incidental food contact. Meets former USDA (H1) guidelines.



FEATURES:

- ❖ Clean O-Ring lubricant
- ❖ Vacuum Applications
- ❖ Food Grade
- ❖ Wide Temperature Range
- ❖ Seals out moisture
- ❖ Safe in potable water
- ❖ High dielectric strength
- ❖ Heat Stable^{1000°}
- ❖ Excellent resistance to water washout
- ❖ Vacuum Chamber Sealant
- ❖ Heavy consistency
- ❖ Preserves and lubricates rubbers and plastics
- ❖ Compatible with majority of rubber and plastic compounds
- ❖ Kosher certified
- ❖ NSF Registered (H1), #156444



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TYPICAL APPLICATIONS:

- ❖ O-Rings – Static and dynamic
- ❖ Vacuum/chamber sealant
- ❖ Valves
- ❖ Food processing equipment
- ❖ Pneumatic systems
- ❖ Seals
- ❖ Pressure plug valves
- ❖ Water softener and faucet valves
- ❖ Pool pumps and filter seals
- ❖ Weather stripping
- ❖ Rubber gaskets

COMPATIBILITY CHART:

RATING KEY	
E - Compatibility Excellent	
G - Compatibility Good	
NC - Not Compatible	
Polymer (plastics) Constant Strain Tensile Testing	Rating
Acrylonitrile Butadiene Styrene (ABS)	E
Cellulose acetate (CA)	E
Polyamide (PA) (Nylon)	E
Polycarbonate (PC)	E
Polyethylene (PE)	E
*ultra high molecular mass (PE-UHMW)	E
*low density (PE-LD)	E
Polyethylene-/polybutylenetherephthalat (PET / PBT)	E
Polyoxymethylene, Polyacetate (POM) (Delrin)	G
Polypropylene (PP)	E
Polyphenylene oxide (PPO)	E
Polyphenylene sulphide (PPS)	G
Polystyrene (PS)	E
Polytetrafluoroethylene (PTFE)	E
Polyurethane (PUR)	E
Polyvinylchloride (PVC)	E
Thermoplastic elastomer (TPE)	E
Elastomer (rubber)	Rating
Acrylic rubber (ACM)	E
Buna S	E
Butyl (IIR)	E
Polychloroprene rubber (CR)	E
Chlorosulphonated PE-rubber (CSM)	E
Ethylene-propylene-diene rubber (EPDM)	E

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Fluorinated rubber (FKM)	E
Natural rubber (NR)	E
Neoprene	E
Nitrile (NBR)	E
Polyurethane (AU, EU)	E
Propylene-tetrafluorethylene rubber (FPM, FEPM)	E
Styrene-butadiene rubber (SBR)	E
Silicone rubber (FMQ, PMQ, MQ, VMFQ, VMQ)	NC
Viton (FKM)	E

PACKAGE SIZES:

Part No.	Description
93003	3 oz. Tube
93016	400 gram Canister
93030	30 lb. Pail
93400	400 lb. Drum

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	1.11
Penetration, Worked 60 strokes:	ASTM D217	265 – 295
Vapor Pressure @ 200°C (Pascal):		1.33
Dielectric Strength (Volts/mil, 50 mil gap):	CTM 0114	400
Dielectric Loss:	ASTM D924	1.2 x 10 ¹²
Oil Separation, 21 hrs. / 100°C:	ASTM D6184	0%
Evaporation Loss 22 hrs. @ 212°F (100°C)	ASTM D972	0.4%
Melting Point:		No Melt
Water Washout:	ASTM D1264	< 1%

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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.



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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