



TECHNICAL DATA SHEET

SUPER LUBE® O-RING SILICONE LUBRICANT

May 2021

PRODUCT DESCRIPTION:

Super Lube® O-Ring Silicone Lubricant is a specially formulated non-curing silicone fluid 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. In addition, the product is waterproof, protects against moisture, oxidation and is heat stable.

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

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

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

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



FEATURES:

- ❖ Clear O-ring fluid
- ❖ Vacuum applications
- ❖ Seals out moisture
- ❖ High dielectric strength
- ❖ Safe in potable water
- ❖ Food grade and clean
- ❖ Rubber preservative
- ❖ Heat Stable
- ❖ Lubricates most rubbers and plastics
- ❖ Wide temperature range
- ❖ Compatible with majority of rubber and plastic compounds.
- ❖ Environmentally friendly
- ❖ Kosher certified
- ❖ NSF Registered (H1), #156449

TYPICAL APPLICATIONS:

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



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**COMPATIBILITY CHART:**

| <b>RATING KEY</b>   |               |
|---|---------------|
| E - Compatibility Excellent                               |               |
| G - Compatibility Good                                    |               |
| NC - Not Compatible                                       |               |
| <b>Polymer (plastics) Constant Strain Tensile Testing</b> | <b>Rating</b> |
| 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             |
| <b>Elastomer (rubber)</b>                                 | <b>Rating</b> |
| 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             |
| 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             |



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PACKAGE SIZES:

| Part No. | Description  |
|----------|--------------|
| 56204    | 4 oz. Bottle |
| 56205    | 5 gal. Pail  |
| 56255    | 55 gal. Drum |

PROPERTIES:

| Test  | Characteristic  | Rating                          |
|---|-----------------|---------------------------------|
| Color:                                      |                 | Clear                           |
| Temperature Range:                          |                 | -58°F to 392°F (-50°C to 200°C) |
| Viscosity 25°C                              |                 | 5,000                           |
| Viscosity/Temperature Coefficient:          |                 | .62                             |
| Specific Gravity @25°C:                     |                 | .973                            |
| Pour Point:                                 |                 | -45°C                           |
| Lbs./Gallon:                                |                 | 8.12                            |
| Dielectric Strength 25°C, kV/mm:            |                 | 18                              |
| Flashpoint:                                 | Closed cup 300C | >300°C                          |
| Refractive Index 25°C:                      |                 | 1.404                           |
| Surface Tension 25°C, mN/m:                 |                 | 21.1                            |
| Vapor Pressure 200°C:                       |                 | 1.33                            |
| Volume Expansion Coefficient 25°C to 100°C: |                 | 9.45 x 10 <sup>-4</sup>         |

DIRECTIONS:

- Clean 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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