



TECHNICAL DATA SHEET SUPER LUBE® SILICONE OIL

March 2018

PRODUCT DESCRIPTION:

Super Lube® Silicone Oil is a straight chained polydimethylsiloxanic fluid.

Super Lube® Silicone Oil offers a low variance in viscosity as a function of temperature, operating from -58°F to 392°F (-50°C to 200°C).

Super Lube® Silicone Oil has excellent peak and prolonged shear strength with high resistance to oxidation, hydrolysis and ageing. It is chemically inert with very limited combustibility.

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



FEATURES:

- ❖ High and low temperature stability
- ❖ Good combustion resistance
- ❖ Superior dielectric properties
- ❖ High compressibility
- ❖ Excellent oxidation resistance
- ❖ Shear stable
- ❖ Chemically inert
- ❖ High spreading and wetting capabilities
- ❖ Environmentally friendly
- ❖ Biodegradable
- ❖ NSF Registered (H1), #151067

TYPICAL APPLICATIONS:

- ❖ Dielectric fluids
- ❖ Damping fluids
- ❖ Heat transfer fluid
- ❖ Water repellent treatment
- ❖ Mold release agent
- ❖ Elastomer or plastic on metal lubricant
- ❖ High temperature oil baths
- ❖ Seals
- ❖ Pressure plug valves
- ❖ Pneumatic systems
- ❖ Weather stripping
- ❖ Vacuum systems
- ❖ Water softener and faucet valves
- ❖ Food processing equipment



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PACKAGE SIZES:

Part No.	Description
56104	4 oz. Bottle – 100 cSt
56101	1 gal. Bottle – 100 cSt
56105	5 gal. Pail – 100 cSt
56155	55 gal. Drum – 100 cSt
56504	4 oz. Bottle – 5000 cSt
56501	1 gal. Bottle – 5000 cSt
56505	5 gal. Pail – 5000 cSt
56555	55 gal. Drum – 5000 cSt

PROPERTIES:

Test	Characteristic	Ratings	
		100 cSt	5,000 cSt
Color:		Clear	Clear
Temperature Range:		-58°F to 392°F (-50°C to 200°C)	-58°F to 392°F (-50°C to 200°C)
Viscosity 25°C:		100	5,000
Viscosity/Temperature Coefficient:		.6	.62
Specific Gravity 25°C:		.965	.973
Pour Point:		-55°C	-45°C
Lbs./Gallon:		8.05	8.12
Dielectric Strength 25°C, kV/mm:		16	18
DC Resistivity 25°C:		1 x 10 ¹⁵	1 x 10 ¹⁵
Dielectric Dissipation, Khz:		1 x 10 ⁻⁴	1 x 10 ⁻⁴
Flashpoint:	Open/Closed cup	>300°C	>300°C
Thermal Conductivity, W/m°C:		.16	.16
Specific Heat Capacity 40°C to 200°C, J/g:		1.46	1.5
Refractive Index 25°C:		1.403	1.404
Surface Tension 25°C, mN/m:		20.9	21.1
Vapor Pressure 200°C:		1.33	1.33
Volume Expansion Coefficient 25°C to 100°C:		9.45 x 10 ⁻⁴	9.45 x 10 ⁻⁴
Biodegradability:	CEC-L33-T82	50% degradability 28-35 days 60+% degradability 56 days	50% degradability 28-35 days 60+% degradability in 56 days



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DIRECTIONS:

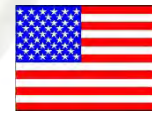
- Clean and dry area to be treated.
- Apply Super Lube® Silicone Oil.
- Re-apply as necessary.

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. 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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