



TECHNICAL DATA SHEET

SUPER LUBE® MULTI-USE SYNTHETIC LIGHTWEIGHT OIL

December 2020

PRODUCT DESCRIPTION:

Super Lube® Multi-Use Synthetic Lightweight Oils are available in viscosities ranging from ISO 10 to ISO 68.

Super Lube® Multi-Use Synthetic Lightweight Oils exhibit superior performance in a wide range of applications.

Super Lube® Multi-Use Synthetic Lightweight Oils have excellent oxidation resistance and separate readily from water. Its resistance to foaming allows extension of oil filter intervals while assuring a clean system.

Super Lube® Multi-Use Synthetic Lightweight Oils are NSF registered Food Grade lubricants, rated H1 for incidental food contact. Meets former USDA (H1) guidelines.



FEATURES:

- ❖ Viscosity stable
- ❖ Extremely wide operating temperature range
- ❖ Superior at low temperatures
- ❖ Prevents rust and corrosion
- ❖ Separates readily from water
- ❖ Dielectric
- ❖ Excellent oxidation resistance
- ❖ Environmentally friendly
- ❖ Superior heat transfer
- ❖ Zinc and metal free
- ❖ NSF Registered H1 #136306
- ❖ Kosher Certified

TYPICAL APPLICATIONS:

- ❖ Hydraulic
- ❖ Compressor
- ❖ Thermal-Heat Transfer
- ❖ Horizontal Slideways
- ❖ Light and Heavy-Duty Vacuum Pumps
- ❖ Chains
- ❖ Cables
- ❖ Pumps
- ❖ Bearings
- ❖ Motors
- ❖ Air Line Lubricators
- ❖ Textile Spindles
- ❖ Grinder Arbor Bearings
- ❖ Ring Oiled Bearings
- ❖ Wick Feeds
- ❖ High Speed Spindles
- ❖ Laboratory Equipment
- ❖ Sensitive Instruments
- ❖ Lathes
- ❖ Jig Bores and Tracer Mechanisms
- ❖ Other light viscosity oil applications



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PACKAGE SIZES:

Part No.	Description	Part No.	Description
50104	4 oz. Bottle – ISO 10	50140	1 Gallon Bottle – ISO 10
50108	8 oz. Bottle – ISO 10	50150	5 Gallon Bottle – ISO 10
50120	1 Pint Bottle – ISO 10	50115	15 Gallon Keg – ISO 10
50130	1 Quart Bottle – ISO 10	50155	55 Gallon Drum – ISO 10

Part No.	Description	Part No.	Description
50204	4 oz. Bottle – ISO 22	50240	1 Gallon Bottle – ISO 22
50208	8 oz. Bottle – ISO 22	50250	5 Gallon Bottle – ISO 22
50220	1 Pint Bottle – ISO 22	50215	15 Gallon Keg – ISO 22
50230	1 Quart Bottle – ISO 22	50255	55 Gallon Drum – ISO 22

Part No.	Description	Part No.	Description
50304	4 oz. Bottle – ISO 32	50340	1 Gallon Bottle – ISO 32
50308	8 oz. Bottle – ISO 32	50350	5 Gallon Bottle – ISO 32
50320	1 Pint Bottle – ISO 32	50315	15 Gallon Keg – ISO 32
50330	1 Quart Bottle – ISO 32	50355	55 Gallon Drum – ISO 32

Part No.	Description	Part No.	Description
53004	4 oz. Bottle – ISO 46	53040	1 Gallon Bottle – ISO 46
53008	8 oz. Bottle – ISO 46	53050	5 Gallon Bottle – ISO 46
53020	1 Pint Bottle – ISO 46	53150	15 Gallon Keg – ISO 46
53030	1 Quart Bottle – ISO 46	53550	55 Gallon Drum – ISO 46

Part No.	Description	Part No.	Description
52004	4 oz. Bottle – ISO 68	52040	1 Gallon Bottle – ISO 68
52008	8 oz. Bottle – ISO 68	52050	5 Gallon Bottle – ISO 68
52020	1 Pint Bottle – ISO 68	52150	15 Gallon Keg – ISO 68
52030	1 Quart Bottle – ISO 68	52550	55 Gallon Drum – ISO 68



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PROPERTIES:

Test	Test Method	10	22	32	46	68
ISO Grade:		10	22	32	46	68
Replace SAE Grade Gear Oils		N/A	N/A	75W	75W	80W
Color:		Clear	Clear	Clear	Clear	Clear
Temperature Range Continuous:		-70°F to 280°F (-56°C to 137°C)	-70°F to 400°F (-56°C to 204°C)	-65°F to 500°F (-53°C to 260°C)	-40°F to 500°F (-40°C to 260°C)	-40°F to 500°F (-40°C to 260°C)
Viscosity cSt @ 100°C:	ASTM D445	3.5	5.5	6.8	8.4	11
cSt @ 40°C:	ASTM D445	10	22	32	46	68
Viscosity index	ASTM D227	280	205	179	161	153
Specific Gravity:	ASTM D1298	.82 @ 60°F	.82 @ 60°F	.82 @ 60°F	.82 @ 60°F	.82 @ 60°F
Pour Point:	ASTM D97	-87°F (-66°C) maximum	-87°F (-66°C) maximum	-87°F (-66°C) maximum	-87°F (-66°C) maximum	-54°F (-48°C) maximum
Water, PPM:	ASTM D1744	< 40 ppm	< 40 ppm	< 40 ppm	< 40 ppm	< 40 ppm
Tan:	ASTM D974	0.02 maximum	0.02 maximum	0.02 maximum	0.02 maximum	0.02 maximum
Four Ball Test Load Wear Index:	ASTM D2596 and D2783	27 kg	27 kg	27 kg	27 kg	27 kg
Weld Point:		130 kg	130 kg	130 kg	130 kg	130 kg
Four Ball EP Test Scar Diameter:	ASTM D2266 and D4172	< 0.5 mm	< 0.5 mm	< 0.5 mm	< 0.5 mm	< 0.5 mm
Salt Spray Test (100 hrs.):	ASTM B117	Pass	Pass	Pass	Pass	Pass
Dielectric Loss:	ASTM D924	1.2 x 10 <sup>12</sup>	1.2 x 10 <sup>12</sup>	1.2 x 10 <sup>12</sup>	1.2 x 10 <sup>12</sup>	1.2 x 10 <sup>12</sup>
Dielectric Resistivity:	ASTM D1169	1.7 x 10 <sup>12</sup>	1.7 x 10 <sup>12</sup>	1.7 x 10 <sup>12</sup>	1.7 x 10 <sup>12</sup>	1.7 x 10 <sup>12</sup>
Dielectric Constant:	ASTM D924	2.5	2.5	2.5	2.5	2.5
Evaporation Loss 22 hrs. @ 212°F (100°C)	ASTM D972	< 2%	< 2%	< 2%	< 2%	< 2%
Oxidation Stability, 100 hrs.:	ASTM D942 and D943	4 psi	4 psi	4 psi	4 psi	4 psi



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Test	Test Method	Results				
Flash Point:	ASTM D92	302°F (150°C)	428°F (220°C)	>450°F (232°C)	>450°F (232°C)	>450°F (232°C)
Fire Point:	ASTM D92	349°F (176°C)	>493°F (256°C)	>525°F (300°C)	>525°F (300°C)	>525°F (300°C)
Copper Corrosion 24 hrs. @ 100°C:	ASTM D4048 and D130	1A	1A	1A	1A	1A
Acid Number:	ASTM D664	0.5 mg KOH/g	0.5 mg KOH/g	0.5 mg KOH/g	0.5 mg KOH/g	0.5 mg KOH/g
Biodegradability:	CEC-L33-T82	60+% degradability in 28-35 days	60+% degradability in 28-35 days	50% degradability in 28-35 days	50% degradability in 28-35 days	50% degradability in 28-35 days
		70+% degradability in 56 days	70+% degradability in 56 days	60+% degradability in 56 days	60+% degradability in 56 days	60+% degradability in 56 days

#### DIRECTIONS:

- Clean area to be treated.
- Apply oil.

#### 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 data sheet. 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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