



Guide To Lubriplate® High Performance Synthetic Lubricants

- **Synthetic Multi-Purpose Gear, Bearing, Chain & Recirculating Fluids**
- **Multi-Purpose Synthetic Greases**
- **Synthetic Compressor Fluids**
- **Refrigeration Compressor Fluids**
- **Synthetic Hydraulic Fluids**
- **Cleaning and Flushing Fluids**
- **Environmentally Responsible Synthetic Lubricants**
- **Synthetic NSF H-1 Registered Food Machinery Lubricants**
- **Perma Automatic Lubricators**



Lubriplate Lubricants Company

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■ Features and Benefits of Lubriplate® Synthetic Lubricants

To: Our Lubriplate Distributors and Consumers...

Thank you for your interest in Lubriplate Synthetic Lubricants. For 140 years, our company has manufactured and sold only the highest quality lubricants to all types of industry. Manufactured under strict ISO 9001 registered quality assurance standards, these lubricants are formulated from the highest quality synthetic base stocks combined with unique premium, anti-wear additives. They deliver a number of significant, cost effective advantages over conventional mineral oil-based lubricants as outlined on the chart below. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust and your business.

Sincerely,

Richard T. McCluskey
Richard T. McCluskey / President and Chief Executive Officer



FEATURES	BENEFITS
1. Long lubricant life - Substantially longer drain intervals.	Extended drain intervals are proven and supported by Lubriplate's complimentary follow-up lubricant analysis program. This saves money.
2. Minimum four times the oxidation stability - versus mineral oil based lubricants.	Prolonged resistance to oxidation means the lubricants last longer in the presence of high application temperatures. This saves money.
3. Significantly lower cold tests - than mineral oil based lubricants.	Low cold tests combined with prolonged oxidation stability deliver stable lubricant life over wide operating temperature ranges and less re-lubrication intervals. This saves money.
4. Unique additive systems - combined with synthetic base stocks.	This reduces friction and delivers reductions in amperage draw, saving energy costs. Reduced friction reduces machinery wear and extends machinery and component life.
5. Multifunctional use - Lubricant consolidation.	Lowers lubricant inventory costs and reduces the chance for costly lubricant misapplication.

■ Complimentary Value Added Services Offered



Toll Free Technical Support Hotline and E-mail

Call our technical service center toll free at 800-347-5343 or 800-733-4755 for answers to your lubrication questions by phone, or e-mail your questions to LubeXpert@lubriplate.com or contact your nearest Lubriplate district manager (see page 15 for listing) or your local distributor representative for complete technical support.



Complete Plant Surveys and Lubricant Inventory Consolidation

Complete plant surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation.



Customized, Color Coded, Lubricant Specification, Machinery Tags

Customized with your company logo, these color coded machinery tags help prevent lubricant misapplication and ensure that the proper lubricant is used when servicing a particular piece of equipment. Based on a complete plant survey, tags can be provided for each piece of equipment in your plant.



Lubrication Maintenance Software

Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of your entire plant. Contact Dan Moroses (Newark office) for details at 973-589-9150.



No-Charge Oil / Fluid and Grease Analysis

Our Oil/Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleanliness (optional). An interpretation of the results is included along with suggested actions to take.



In Plant User Lubrication Training and Distributor Training

We offer training programs tailored to fit your needs. These educational training sessions focus on all facets of machinery lubrication and are not a sales presentation. Seminars are graphically presented with overheads, and other support material. Available on-site at your facility or in a local conference room. Contact us at 800-733-4755 for more information.

Multi-Purpose, Gear, Bearing, Chain & Recirculating Fluids

Syn Lube 150 - 1000: Polyalphaolefin (PAO)-Based, 100% Synthetic Multi-Purpose Fluids.

These multi-purpose polyalphaolefin (PAO) based, zinc-free fluids are formulated with state-of-the-art additives. These fluids provide outstanding performance over extended drain intervals. They are recommended for gearboxes, bearings, chains and recirculating systems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN LUBE 150	L0974-	150	4	80W-90	151 / 20	762 / 97	156	510°F / 266°C	555°F / 291°C	-60°F / -51°C
SYN LUBE 220	L0975-	220	5	90	216 / 26	1088 / 128	155	510°F / 266°C	555°F / 291°C	-50°F / -46°C
SYN LUBE 320	L0976-	320	6	80W-140	311 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SYN LUBE 460	L0977-	460	7	140	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SYN LUBE 680	L0978-	680	8	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SYN LUBE 1000	L0979-	1000	8A	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*Syn Lube 150 through 1000 is available in Jugs, Pails, 1/4 Drums & Drums. See page 12 more information and the package part number suffix.

Syn Lube HD Series: Heavy-Duty, Extreme Pressure, Polyalphaolefin (PAO)-Based, 100% Synthetic Fluids.

These heavy-duty, zinc free, extreme pressure, 100% synthetic based, fluid lubricants are designed for applications where an extreme pressure synthetic fluid is required. They deliver outstanding extreme pressure protection, excellent anti-wear properties and very low coefficients of friction, resulting in lower operating temperatures, reduced power consumption and longer equipment life. Excellent thermal stability and oxidation resistance increases service life, providing extended drain intervals. Compatible with a broad range of seals. Syn Lube HD 220 and 460 pass 12 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN LUBE HD 150	L1000-	150	4 EP	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-60°F / -51°C
SYN LUBE HD 220	L1001-	220	5 EP	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-55°F / -48°C
SYN LUBE HD 320	L1002-	320	6 EP	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-50°F / -46°C
SYN LUBE HD 460	L1003-	460	7 EP	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-50°F / -46°C
SYN LUBE HD 680	L1004-	680	8 EP	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-45°F / -43°C

*Syn Lube HD Series Lubricants are available in Jugs, Pails, 1/4 Drums & Drums. See page 12 more information and the package part number suffix.

Synthetic Worm Gear Lubricant: Polyalphaolefin (PAO)-Based, 100% Synthetic Fluid Lubricant.

This high performance, ISO 460 grade, synthetic gear lubricant is recommended for all types of worm gear reducers. Formulated with advanced additives, this 100% synthetic-based fluid provides outstanding anti-wear and anti-friction properties ideal for the high sliding action of worm gears. It works well over a wide range of temperature extremes. It is compatible with a broad range of seal materials. Excellent oxidation resistance insures long service life. Passes 12 stages of FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
Syn Worm Gear	L0981-	460	7	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-50°F / -46°C

*Synthetic Worm Gear Lubricant is available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

Synthetic High Temp Fluids 68 and 220: 100% Ester-Based Fluids.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tenter frame chains, heat treating chains, paint curing oven chains and any other type of bearing/slide/gearbox applications where they are exposed to high operating temperatures and must maintain a clean lubricated surface. Available in ISO viscosity grades 68 and 220. Proven successful in applications in excess of 600°F / 316°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN High Temp 68	L0778-	68	2	80W	74 / 11	364 / 58	109	554°F / 290°C	640°F / 338°C	-25°F / -32°C
SYN High Temp 220	L0780-	220	5	90	220 / 19	1112 / 102	92	525°F / 274°C	580°F / 304°C	-5°F / -21°C

*SYN High Temp 68 & 220 is available in Pails & Drums. See page 12 more information and the package part number suffix.

SYN BOC FG-68, SYN BOC FG-220 and PGO Series

Environmentally Responsible Lubricants.

See page 9 for information on these products.



Multi-Purpose Synthetic Greases

SYNXTREME HD-Series: Extreme-Duty, High-Temperature, Synthetic, Calcium Sulfonate Complex Greases.

These high performance, extreme-duty, multi-purpose, synthetic, calcium sulfonate complex greases provide unsurpassed anti-wear, and extreme pressure protection. They are highly water resistant and work well over a wide range of temperature extremes and other adverse conditions. Superior shear stability and oxidation resistance provide long lasting protection. Available in 3 NLGI grades for a wide range of applications. SYNXTREME HD-2 is NLGI GC-LB certified for wheel bearing and chassis lubrication.



Also available in Pails, 1/4 Drums, Drums and Permas,

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME HD-0	L0403-	0	100 / 500	355 / 385	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES
SYNXTREME HD-1	L0402-	1	100 / 500	310 / 340	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES
SYNXTREME HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME HD Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 12 and 13 more information and the package part number suffix.

SYN-1600 Series: High Performance, Multi-Purpose Polyalphaolefin (PAO)-Based Synthetic Lithium Complex Greases.

These greases are manufactured with 100% polyalphaolefin (PAO) base fluids and lithium complex thickeners for superior oxidation stability, better wear protection and significantly better operating temperature ranges. Fortified with additives to prevent rust and corrosion and to reduce grease bleed. Recommended for most general grease applications.



Also available in Pails, 1/4 Drums, Drums and Permas,

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT
SYN-1600	L0300-	0	218 / 1009	355 / 385	500°F / 260°C	-50°F / -46°C	AW/EP	YES	YES
SYN-1601	L0301-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES
SYN-1602	L0302-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES

*SYN-1600 Series Greases are available in Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 12 and 13 more information and the package part number suffix.

SYN-3001 & SYN-3002: Moly-Fortified, Heavy-Duty, Polyalphaolefin (PAO)-Based, Synthetic Greases.

These high performance, heavy-duty, moly-fortified, synthetic greases provide superior oxidation resistance for long lasting protection from friction, wear and corrosion. They have excellent high and low temperature performance and are highly resistant to water. Contains 5% Moly. Recommended for all types of heavy equipment.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT
SYN-3001	L0315-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES
SYN-3002	L0316-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES

*SYN-3001 & SYN-3002 Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 12 and 13 more information and the package part number suffix.

SYN-EMB: Polyalphaolefin (PAO)-Based, Lithium Complex Type, 100% Synthetic Grease for Electric Motor Bearings.

This high temperature capable, mechanically stable, 100% synthetic grease was developed specifically for the lubrication of medium to high speed electric motor bearings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT
SYN-EMB	L0335-	2	100 / 500	265 / 295	500°F / 260°C	-	AW/EP	YES	YES

*SYN-EMB is available in Cartridges, Pails, 1/4 Drums & Drums. See page 12 for package part number suffix.

SYN GR-132: Polyalphaolefin (PAO) / Ester Combination-Based, Lithium Complex Type, 100% Synthetic Grease.

This state-of-the-art, PAO/Ester combination based, 100% synthetic, lithium complex type grease delivers excellent mechanical stability. Recommended for all types of high speed anti-friction bearings. An outstanding synthetic grease for very low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT
SYN GR-132	L0336-	2	23 / 129	265 / 295	445°F / 230°C	-49°F / -45°C	AW/EP	YES	YES

*SYN-GR-132 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 12 for package part number suffix.

Synthetic Air Compressor Fluids

Syn Lube 22-100: Polyalphaolefin (PAO)-Based, 100% Synthetic Fluids.

These polyalphaolefin (PAO)-based, zinc-free, synthetic air compressor fluids are recommended for rotary screw and rotary vane air compressors. They are also recommended for centrifugal air compressors striving for lower power consumption. They offer superior thermal and oxidation stability, outstanding water demulsibility, extremely low pour points, very high viscosity indexes, superior heat transfer characteristics and excellent seal material compatibility. Fluid drain intervals are 6 - 8,000 hours under normal conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C

*Syn Lube Fluids 22 through 100 are available in Pails & Drums. See page 12 for package part number suffix.

SynXtreme AC Series: Polyolester (POE)-Based, 100% Synthetic Compressor Fluids.

These state-of-the-art, polyolester (POE) type, 100% synthetic fluids are designed for maximum performance in rotary screw and vane type air compressors. Special advanced POE base esters combined with a multi-charged additive system produce unmatched oxidative stability, enhanced hydrolytic stability and excellent wear and corrosion protection. Potential for fluid drain intervals of +10,000 hours.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNXTREME AC 32	L0939-	32	10	32 / 6	-	125	525°F / 274°C	-	-51°F / -46°C
SYNXTREME AC 46	L0940-	46	20	46 / 7	-	117	527°F / 275°C	-	-40°F / -40°C
SYNXTREME AC 68	L0941-	68	20	66 / 9	-	103	530°F / 277°C	-	-20°F / -29°C

*SynXtreme AC Series Fluids are available in Pails & Drums. See page 12 for more information and package part number suffix.

Synac Series: Diester-Based, 100% Synthetic Compressor Fluids.

These diester-based synthetic air compressor fluids are for rotary screw, rotary vane, reciprocating air compressors, vacuum pumps, blowers, centrifuges and a multitude of other high temperature applications. They are outstanding for applications in which the fluid is subjected to high temperature and high stress conditions over extended drain intervals up to 8,000 hours. They eliminate sludge and varnish buildup caused by high operating temperatures. Due to their clean natural detergency characteristics, they are ideal for upper cylinder lubrication of reciprocating air compressors.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNAC 32	L0932-	32	10	31 / 6	155 / 46	135	450°F / 232°C	530°F / 277°C	-45°F / -43°C
SYNAC 46	L0933-	46	20	44 / 7	213 / 49	118	455°F / 235°C	535°F / 279°C	-35°F / -37°C
SYNAC 68	L0934-	68	20	64 / 8	311 / 53	98	455°F / 235°C	535°F / 279°C	-20°F / -29°C
SYNAC 100	L0935-	100	30	100 / 10	510 / 60	76	450°F / 232°C	530°F / 277°C	-15°F / -26°C
SYNAC 150	L0936-	150	40	147 / 13	754 / 71	71	540°F / 282°C	570°F / 299°C	-25°F / -32°C
SYNAC 220	L0937-	220	-	201 / 16	1003 / 83	74	545°F / 285°C	575°F / 302°C	-20°F / -29°C
SYNAC 320	L0938-	320	-	290 / 20	1496 / 99	77	475°F / 246°C	505°F / 263°C	-5°F / -20°C

*Synac Series Fluids are available in Pails & Drums. See page 12 for more information and package part number suffix.

Syncool:

Environmentally Responsible, Readily Biodegradable, Synthetic Air Compressor Fluid.

See page 9 for information on this fluid.

SFGO Ultra 22 - 100:

NSF H-1 Registered, Food Machinery Grade, (PAO)-Based, 100% Synthetic Fluids.

See page 11 for information on these fluids.

■ OEM / Lubriplate Synthetic Air Compressor Fluid Interchange

ATLAS-COPCO	LUBRIPLATE	GARDNER DENVER	LUBRIPLATE	KAESER	LUBRIPLATE
GA-8K	Syn Lube 46	AEON 9000	Syn Lube 46	Sigma 8000 S-320	Syn Lube 32
HD Roto Fluid / HD Roto Fluid Plus	Syn Lube 46	AEON 9000 SP	Syn Lube 46	Sigma 8000 S-460	Syn Lube 46
Roto Extend	Syn Lube 46	AEON CL	Syn Lube 46	Sigma 8000 S-680	Syn Lube 68
Roto Z	Syn Lube 68	AEON PD	Syn Lube 220	Sigma 4000 M-460 (Semi-Synthetic)	Syn Lube 46
GA-OK	Synac 32	AEON BIO	SynXtreme AC-46	Sigma 4000 M-100 (Semi-Synthetic)	Syn Lube 100
GA-FG	SFGO Ultra 32**	AEON TH	SynXtreme AC-46	Sigma 4000 M-150 (Semi-Synthetic)	Syn Lube 150
COMPAIR	LUBRIPLATE	AEON PG	Syncool	325 R	Synac 32
Hydrovane 2000	Synac 100	AEON 8000	Synac 68	466 R	Synac 46
CN 300	Synac 100	AEON 5000	Synac 68	687 R	Synac 68
CS 100	Synac 32	GD 5000	Synac 100	Sigma 8000 S-100	Synac 100
CS 5000 XL	Synac 46	GD 5000-30	Synac 100	Sigma 8000 S-150	Synac 150
CS 500 XL	Synac 46	AEON 6000 FG	SFGO Ultra 46**	Sigma 8000 FG	SFGO Ultra 46**
CS 200	Synac 68	COMP CLEAN II	Synflush	QUINCY	LUBRIPLATE
CS 300	Synac 100	INGERSOLL-RAND	LUBRIPLATE	Quincy PG Ester 46	Syncool
CS 400	Synac 150	XHP-505	Syn Lube 68	Quin Syn	Syn Lube 46
CSX 20	SFGO Ultra 46**	XL-T-30	Syn Lube 100	Quin Syn Plus	Syn Lube 46
PALATEK	LUBRIPLATE	SSR Ultra Coolant	Syncool	Quin Syn HP	SynXtreme AC-46
Palasyn 45	Syn Lube 46	SSR Ultra Plus Coolant	SynXtreme AC-32	Quin Syn XP	SynXtreme AC-68
Pallube 32	Syncool	Original SSR Coolant	Synac 68	Quin Syn PG	Syncool
Palatek AFX 32	SynXtreme AC-32	Techrol Gold	Syncool	Quin Syn FG	SFGO Ultra 46**
Palaextra	SynXtreme AC-46	XL-700	Synac 100	Quin Syn Flushing Oil	Synflush
Palatek Food Grade 32	SFGO Ultra 32**	XL-740 HT	Synac 150	SULLAIR	LUBRIPLATE
LEROI	LUBRIPLATE	T-30 Select	Synac 100	LLL-4-32 or SRF 2-800	Syn Lube 32
SSL-46 or SSL-46 Plus	Syn Lube 46	SSR H-1 F	SFGO Ultra 32**	LLL-4-46	Syn Lube 46
SSL-50 (Semi-Synthetic)	Syn Lube 46	FG Coolant	SFGO Ultra 46**	LLL-4-100	Syn Lube 100
SSL-46 FG	SFGO Ultra 46**	CURTIS TOLEDO	LUBRIPLATE	LLL-4-150	Syn Lube 150
Cleaner	Synflush	RS 12,000	SynXtreme AC-46	Sullube	Syncool

■ Refrigeration Compressor Fluids

68-P: Semi-Synthetic-Based, Refrigeration Compressor Fluid.

This highly refined lubricant is formulated for use in refrigeration compressor systems utilizing ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants, such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502. It is not recommended for use with HFC (hydrofluorocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oil 68-P is available in Pails & Drums. See page 12 for more information and the package part number suffix.

RCO-68: (PAO)-Based, 100% Synthetic, NSF H-1 Registered** Food Grade, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
RCO-68	L0818-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C

*RCO-68 Fluid is available in Pails & Drums. See page 12 for package part number suffix.

**NSF H-1 Registered Food Machinery Grade Fluid. See page 10 for more information.

■ Synthetic Hydraulic Fluids

Syn Lube 22-100:

100% Synthetic, Polyalphaolefin (PAO)-Based Hydraulic Fluids.

These multi-purpose, polyalphaolefin (PAO) based, zinc-free fluids are recommended and approved for many types of hydraulic systems. Formulated with state-of-the-art additives, these premium quality fluids offer excellent thermal and oxidation stability, outstanding water demulsibility, extremely low pour points, high viscosity indexes and superior heat transfer characteristics. They deliver outstanding performance over a wide range of temperatures and operating conditions. They provide excellent seal material compatibility and work well over extended fluid change intervals.



LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C

*Syn Lube Fluids 22 through 100 are available in Pails & Drums. See page 12 for more information and the package part number suffix.

Bio-Syn HF-46 Hydraulic Fluid:

Environmentally Responsible, Readily Biodegradable, High Performance, Synthetic Hydraulic Fluid. See page 9 for information on this fluid.

SFGO Ultra 22 - 100:

NSF H-1 Registered, Food Grade, Polyalphaolefin (PAO)-Based, 100% Synthetic Fluids. See page 11 for information on these fluids.

■ Synthetic Cleaning and Flushing Fluids

SynFlush: 100% Synthetic Cleaning and Flushing Fluid.

This premium quality, pure synthetic fluid is designed to clean and dissolve varnish deposits in air compressors while the compressor is in operation. It is compatible with most petroleum/mineral oils and all Lubriplate Synthetic Compressor Fluids. Recommended for flushing compressors converting from petroleum base oils to synthetic fluids. SYNFLUSH can be used in its pure form in rotary screw air compressors up to 500 hours. Contact Tech Service to obtain usage instructional bulletin, 800-733-4755.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SynFlush	L0962-	-	-	27 / 5	-	135	470°F / 243°C	540°F / 282°C	-75°F / -60°C

*SynFlush is available in Pails & Drums. See page 12 for more information and the package part number suffix.

SynFlush FG: 100% Synthetic, NSF H-1 Registered Food Machinery Grade, Cleaning and Flushing Fluid.

A unique, modern technology product designed to clean various pieces of equipment where a switch from an H-2 to an NSF H-1 Registered product is required. Costly downtime can be avoided as it cleans internally without unit tear down. It is compatible with Synthetic Polyalphaolefin, Polyolesters, Di-esters, Polyalkylene Glycols (PAGs) as well as mineral based fluids; therefore it may be used when switching from many types of fluids without leaving behind incompatible residue. NSF H-1 Registered.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SynFlush FG	L0961-	-	-	-	-	5.3 / 2	-	221	495°F / 257°C	365°F / 185°C	-5°F / -21°C

*SynFlush FG is available in Quart Bottles, Pails & Drums. See page 12 for more information and the package part number suffix.

Environmentally Responsible Synthetic Lubricants



Lubriplate's environmentally responsible lubricants have been developed to help reduce the impact on our environment without sacrificing lubricant performance. Their use can also help our customers comply with the ever increasing environmental regulations for equipment operating in environmentally sensitive areas. The chart below lists some of the industry's standards and terms used for environmentally responsible lubricants.



Terminology	Test Method	Requirements / Results
Ultimate Biodegradation (Pw1)	ASTM D-5864	Minimum 60% converted to CO ₂ in 28 days or less
Readily Biodegradable (Pw1)	OECD 301B	Minimum 60% converted to CO ₂ in 28 days or less
Inherently Biodegradable (Pw2) (Pw3) (Pw4)	ASTM D-5864 or OECD 301B	Min. 60% (Pw2), 40% (Pw3), 20-39% (Pw4) converted to CO ₂ in 84 days
Non/Low Acute Toxicity LC-50	US EPA LC-50	Pass

Environmentally Responsible, Synthetic Lubricants

Syncool Air Compressor Fluid: Readily Biodegradable (Pw1), Synthetic Air Compressor Fluid.

A high-performance, readily biodegradable, synthetic air compressor fluid developed to meet the needs of most rotary screw and rotary vane air compressors where high operating temperatures are present and environmental issues are a concern. Readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1). Excellent thermal and oxidation stability helps eliminate harmful deposits and extend drain intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL	L0964-	32/46	-	75W	10	41 / 8	172	530°F / 277°C	595°F / 313°C	-40°F / -40°C

*Syncool Fluid is available in 5 Gallon Pails and 55 Gallon Drums. See page 12 for more information and the package part number suffix.

SYN BOC FG-68 & 220: Biodegradable, NSF H-1 Registered, Synthetic, High Temperature Oven Chain Lubricants.

These unique, high-performance, bio-based/synthetic, biodegradable, food grade lubricants are manufactured and fortified with boron nitride. The boron nitride provides a light clean lubricating powder after the bio-based oil cleanly dissipates. Designed for high temperature applications, they will lubricate at extremely high temperatures up to 1000°F. They deliver performance advantages far beyond that of black graphite, PTFE and molybdenum disulfide-based lubricants. They are designed for many types of oven chain applications, both food grade and non food grade, including: bakery ovens, paint curing lines, drying ovens, tenter frame applications, etc. Low volatility for increased fire safety.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN BOC FG-68	L0955-	68	2	80	20	68 / 13	187	590°F / 332°C	-	-28°F / -33°C
SYN BOC FG-220	L0960-	220	5	90	50	219 / 36	214	588°F / 306°C	645°F / 337°C	-25°F / -32°C

*SYN BOC FG-68 and SYN BOC FG-220 are available in Pails and Drums with agitators. See page 12 for more information and the package part number suffix.

PGO Series: ECO-Responsible, Polyalkylene Glycol (PAG)-Based, Synthetic Gear, Bearing and Chain Lubricants.

These 100% polyalkylene glycol (PAG) fluids are designed for gearboxes, bearings and chains operating in the most demanding conditions. They provide outstanding thermal stability, excellent extreme pressure and anti-wear performance and protection against micropitting. They exceed 12 stages of the FZG test. Lubriplate PGO Fluids are free of zinc and other additives that may be undesirable in environmentally sensitive areas. They offer long service life and work well over extended fluid change intervals which conserves resources and helps ease waste oil disposal problems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
PGO-150	L0845-	150	4	90	40	150 / 25	232	543°F / 284°C	-	-53°F / -47°C
PGO-220	L0838-	220	5	90	50	227 / 42	242	543°F / 284°C	-	-44°F / -42°C
PGO-320	L0840-	320	6	140	60	339 / 61	252	540°F / 282°C	-	-38°F / -39°C
PGO-460	L0839-	460	7	140	-	477 / 83	262	543°F / 284°C	-	-33°F / -36°C
PGO-680	L0846-	680	8	250	-	725 / 122	272	549°F / 287°C	-	-27°F / -33°C

*PGO Series Fluids are available in Jugs, Pails and Drums. See page 12 for more information and package part number suffix.

■ Lubriplate® Synthetic Food Machinery Grade Lubricants

Lubriplate's complete line of high-performance, NSF H-1 Registered, Synthetic Food Machinery Grade Lubricants is designed to provide total food processing and bottling plant lubrication capability. Manufactured under strict ISO 9001 Registered quality assurance standards, these lubricants are formulated from the highest quality synthetic base stocks combined with state-of-the-art anti-wear additives. They deliver a number of significant, cost effective advantages over conventional mineral oil-based lubricants. These include: extended lube and fluid change intervals, multiple application capability, lubricant inventory consolidation and improved performance. All Lubriplate H-1 Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact. They meet USDA H-1 safety standards and are authorized for use in federally inspected meat and poultry plants. Clean, safe and non-toxic, their use can eliminate lubrication as a critical control point in your HACCP program.



■ Synthetic Food Machinery Grade Greases

SYNXTREME FG-Series: Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Greases.

NSF H-1 registered, high performance, multi-purpose, synthetic, food machinery grade greases. Provides long lasting, anti-wear and extreme pressure protection. Highly resistant to water and caustic solution wash downs. Provides excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME FG-0	L0307-	0	100 / 500	355 / 385	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES
SYNXTREME FG-1	L0306-	1	100 / 500	310 / 340	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES
SYNXTREME FG-2	L0305-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME FG Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 12 and 13 more information and the package part number suffix.

SFL Series: Multi-Purpose, Synthetic, Aluminum Complex, Food Machinery Grade Greases.

This series provides an exceptionally wide operating temperature range, high shear stability, excellent water resistance, and load carrying properties. For use in freezers and other cold temperature applications or in areas subject to both cold and elevated temperatures. Available in 4 densities.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SFL-00	L0195-	00	39 / 200	400 / 430	400°F / 204°C	-60°F / -51°C	AW	YES	YES
SFL-0	L0196-	0	39 / 200	355 / 385	425°F / 218°C	-60°F / -51°C	AW	YES	YES
SFL-1	L0197-	1	39 / 200	310 / 340	450°F / 232°C	-60°F / -51°C	AW	YES	YES
SFL-2	L0198-	2	219 / 1070	265 / 295	500°F / 260°C	-25°F / -32°C	AW	YES	YES

*SFL Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 12 and 13 more information and the package part number suffix.

■ Food Machinery Grade Spray Lubricants

General Purpose Food Grade Silicone Lubricant:

General-Purpose, Food Machinery Grade, Silicone Lubricant.

Developed for use on bottling, dairy and food processing machinery. Contains 20% silicone. For use on slides, O-rings, rubber seals and for general lubrication. Packed in 9.5 OZ. / 269 g. spray can, 12/case Part No. L0723-063.

SFGO-7 Ultra Spray:

High Performance, Synthetic, Multi-Purpose, Chain and Penetrating Fluid Spray Lubricant.

This high performance, synthetic, multi-purpose, spray lubricant in a handy spray can provides quick, clean lubrication right where it is needed. It is an excellent general purpose penetrating fluid. Ideal for all types of machinery including non-food plant equipment, chains, slides, tools and general lubrication. Packed in 11 OZ. / 311.8 g. spray can, 12/case Part No. L0912-063.



■ Synthetic Food Machinery Grade Fluids

SFGO Ultra Series: Polyalphaolefin (PAO)-Based, 100% Synthetic, High-Performance Fluid Lubricants.

Formulated with 100% PAO synthetic base fluids for a variety of demanding applications. They are outstanding lubricants for use under severe conditions subject to extremely high or low temperatures. They exhibit outstanding oxidation resistance and thermal stability capabilities. Recommended for air compressors, hydraulic systems, bearings, gearboxes, pumps and chains. Meets FDA 21 CFR 178.3570 and FDA 21 CFR 172.882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 14 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 193°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 12 for package part number suffix.

SFGO Series: Polyalphaolefin-Polymer (PAO)-Based, Multi-Purpose Fluids.

SFGO fluids, ISO grades 100 - 1500 are still available for less stressful applications which require only a PAO/Polymer combination synthetic fluid.

SYN-H1-220: Polyalkylene Glycol Based, 100% Synthetic Chain, Bearing and Gearbox Lubricant.

Specifically designed for use where elevated temperatures exist and the need for a food grade lubricant is required. For chain applications where air temperatures exceed 400°F / 204°C and up to 600°F / 316°C. when not exposed to open flame or ignition source. Passes 12 stages of FZG test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN-H1-220	L0779-	220	5	85	40	285 / 41	1310 / 188	206	540°F / 282°C	550°F / 288°C	-20°F / -29°C

*SYN-H1-220 Fluid is available in Pails & Drums. See page 12 for package part number suffix.

SSO-FG 100 and SSO-FG 150: 100% Synthetic Lubricants for Angelus Seamers and Canning Equipment.

These high quality, fully synthetic lubricants are designed for use in Angelus seaming/canning equipment and related applications. Formulated with premium additives, these high performance lubricants provide excellent anti-wear, anti-rust and anti-corrosion protection under extreme conditions encountered in the food processing industry such as water, steam and caustic solution wash downs .

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SSO-FG 100	L0956-	100	3	85	40	105 / 16	556 / 77	156	515°F / 268°C	560°F / 293°C	-65°F / -51°C
SSO-FG 150	L0957-	150	4	90	50	151 / 20	762 / 97	156	515°F / 268°C	560°F / 293°C	-60°F / -51°C

*SSO-FG 100 and SSO-FG 150 are available in Drums. See page 12 for package part number suffix.

PGO FGL Series: Polyalkylene Glycol (PAG)-Based, Synthetic Gear Lubricants.

These extreme pressure lubricants are designed for use in helical, bevel helical, planetary and worm type gearboxes operating in the most demanding food manufacturing environments. Formulated with a high performance food grade additive package, these lubricants deliver outstanding protection against micropitting and wear as well as good corrosion protection and thermal stability. These products are approved by Flender.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
PGO-FGL-150	L0810-	150	4	90	40	150 / 25	-	232	543°F / 284°C	-	-53°F / -47°C
PGO-FGL-220	L0811-	220	5	90	50	227 / 42	-	242	543°F / 284°C	-	-44°F / -42°C
PGO-FGL-320	L0812-	320	6	140	60	339 / 61	-	252	540°F / 282°C	-	-38°F / -39°C
PGO-FGL-460	L0813-	460	7	140	-	477 / 83	-	262	543°F / 284°C	-	-33°F / -36°C
PGO-FGL-680	L0815-	680	8	250	-	725 / 122	-	272	549°F / 287°C	-	-27°F / -33°C

*PGO FGL Series Fluids are available in Jugs, Pails and Drums. See page 12 for more information and package part number suffix.

SYN BOC FG-68 & 220: Biodegradable, NSF H-1 Registered, Synthetic, High Temperature Oven Chain Lubricants.

See page 9 for information on these lubricants.

■ Packaging Containers

The chart below indicates Lubriplate's packaging availability and the corresponding Package Part Number Suffix.

How To Generate Part Numbers - Add the desired Package Part Number Suffix, shown here, to the end of the Product Part Number. Product Part Numbers for each product can be found on the product specification charts found on the previous pages.

Not all products are available in every package size.

See package availability for each product at the bottom of the product specification charts.

Large Bulk Container Bins - Contact your Lubriplate representative or call 800-733-4755 for information and product availability.



PRODUCT / PACKAGE AVG. NET WT. / CONTENTS PACKAGE PART NO. SUFFIX	SPRAY CANS NET WT. VARIES BY PRODUCT	CARTRIDGES 14.5 OZ / 411 g	BOTTLES 1 QUART / 946 ml 2 LB / .907 kg	JUGS 1 GAL / 3.79 L 7 LB / 3.18 kg	PAIL 35 LB / 15.9 kg 5 GAL / 18.9 L	QTR DRUM 120 LB / 54 kg 16 GAL / 60.5 L
Multi-Purpose Synthetic Fluids	-	-	-	-057	-060	-061
Synthetic Air Compressor Fluids	-	-	-054	-057	-060	-061
Synthetic Hydraulic Fluids	-	-	-	-057	-060	-061
*Multi-Purpose Synthetic Greases	-	-098	-	-	-035	-039
ECO-Responsible Synthetic Lubes	-	-	-	-057	-060	-061
H-1 Food Grade Synthetic Fluids	-063	-	-054	-057	-060	-061
*H-1 Food Grade Synthetic Greases	-	098	-	-	-035	-039
Package Specifications						
Case Quantity	12	40	12	4	-	-
Aprox. Dimensions / Inches	11 x 8.5 x 8	19.5 x 11.5 x 10.5	13 x 9.5 x 9	14.5 x 10 x 10.5	12 x 15	15 x 27
Avg. Gross Shipping Weight	12 lbs / 5.4 kg	-	26 lbs / 11.8 kg	26 lbs / 11.8 kg	40 lbs / 18.1 kg	134 lbs / 60.8 kg
*Avg. Gross Shipping Weight	12 lbs / 5.4 kg	44 lbs / 20 kg	27 lbs / 12.3 kg	34 lbs / 15.4 kg	38 lbs / 17.2 kg	134 lbs / 60.8 kg

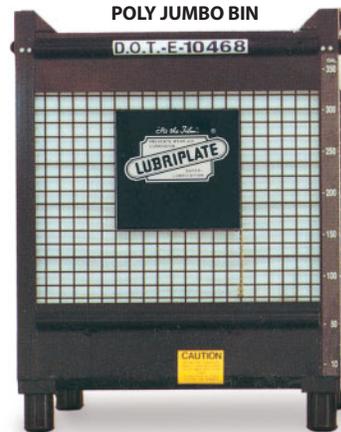
*Items Sold By Weight. Other Items Sold by Volume.



FULL DRUM



SPACEKRAFT BIN



POLY JUMBO BIN



VISCO DRUM

PRODUCT / PACKAGE AVG. NET WT. / CONTENTS PACKAGE PART NO. SUFFIX	FULL DRUMS 420 LB / 191 kg 55 GAL / 208 L	SPACEKRAFT BIN 2450 LB / 1111 kg 330 GAL / 1249 L	POLY JUMBO BIN 1810 LB / 821 kg 250 GAL / 946 L	POLY JUMBO BIN 2520 LB / 1143 kg 350 GAL / 1325 L	POLY JUMBO 3980 LB / 1805 kg 550 GAL / 2082 L	VISCO DRUM 2800 LB / 1270 kg 379 GAL / 1435 L	VISCO DRUM 3800 LB / 1724 kg 500 GAL / 1893 L
Multi-Purpose Synthetic Fluids	-062	-070	-059	-059	-059	-	-
Synthetic Air Compressor Fluids	-062	-070	-059	-059	-059	-	-
Synthetic Hydraulic Fluids	-062	-070	-059	-059	-059	-	-
*Multi-Purpose Synthetic Greases	-040	-042	-041	-041	-041	-041	-041
ECO-Responsible Synthetic Lubes	-062	-070	-059	-059	-059	-	-
H-1 Food Grade Synthetic Fluids	-062	-070	-059	-059	-059	-	-
*H-1 Food Grade Synthetic Greases	-040	-042	-041	-041	-041	-041	-041
Package Specifications							
Aprox. Dimensions / Inches	23.5 x 35	48 x 48 x 51	42 x 48 x 50	42 x 48 x 63.5	42 x 48 x 86	45.5 x 53.5 x 76.5	45.5 x 53.5 x 88
Avg. Gross Shipping Weight	445 lbs / 202 kg	2600 lbs / 1179 kg	2400 lbs / 1089 kg	3200 lbs / 1452 kg	4800 lbs / 2177 kg	3800 lbs / 1724 kg	4900 lbs / 2223 kg
*Avg. Gross Shipping Weight	465 lbs / 211 kg	2600 lbs / 1179 kg	2400 lbs / 1089 kg	3200 lbs / 1452 kg	4800 lbs / 2177 kg	3800 lbs / 1724 kg	4900 lbs / 2223 kg

*Items Sold By Weight. Other Items Sold by Volume.

Perma Automatic Lubricators

Lubriplate Lubricants are now available pre-filled in Perma Automatic Lubricators...

Perma automatic lubricators provide clean, safe, reliable and consistent machinery lubrication around the clock. They are fully programmable and deliver the right amount of lubricant consistently, day after day, week after week. A wide range of types and sizes are available to meet your exact needs. All come pre-filled, ready to install. They save time and labor costs.

Part Numbers - add the desired Perma Package Part Number Suffix shown here to the end of the Product Part Number. Product Part Numbers for each product can be found on the product specification charts found on the previous pages.

Only select products are available in Perma Lubricators. Check the bottom of chart for lubricant availability.



CLASSIC



FUTURA



FROST



STAR VARIO



STAR CONTROL



PRO MP-6



PRO C MP-6

PERMA MODEL	VOLUME SIZE	OUTPUT RATE	PRESSURE BUILD-UP	FEATURES / DETAILS	PERMA PACKAGE PART NO. SUFFIX
CLASSIC	120 cc	1 Month	65 PSI	Metal Housing	-101
CLASSIC	120 cc	3 Month	65 PSI	Metal Housing	-103
CLASSIC	120 cc	6 Month	65 PSI	Metal Housing	-106
CLASSIC	120 cc	12 Month	65 PSI	Metal Housing	-112
FUTURA	100 cc	1 Month	65 PSI	Plastic Housing	-201
FUTURA	100 cc	3 Month	65 PSI	Plastic Housing	-203
FUTURA	100 cc	6 Month	65 PSI	Plastic Housing	-206
FUTURA	100 cc	12 Month	65 PSI	Plastic Housing	-212
FROST	120 cc	1 Month	65 PSI	Metal Housing, For Cold Temperature Applications	-301
STAR VARIO	60 cc	1, 3, 6, 12 Mo. Programable	75 PSI	Battery Operated	-460
STAR VARIO	120 cc	1, 3, 6, 12 Mo. Programable	75 PSI	Battery Operated	-412
STAR VARIO	250 cc	1, 3, 6, 12 Mo. Programable	75 PSI	Battery Operated	-425
STAR CONTROL	60 cc	Based on 100 Machine Hours	75 PSI	PLC Controlled / 12-30 Volts DC	-560
STAR CONTROL	120 cc	Based on 100 Machine Hours	75 PSI	PLC Controlled / 12-30 Volts DC	-512
STAR CONTROL	250 cc	Based on 100 Machine Hours	75 PSI	PLC Controlled / 12-30 Volts DC	-525
STAR LC REFILL KIT	60 cc	-	-	Refill Kit - Includes Pre-Filled LC Unit - Battery Pack	-660
STAR LC REFILL KIT	120 cc	-	-	Refill Kit - Includes Pre-Filled LC Unit - Battery Pack	-612
STAR LC REFILL KIT	250 cc	-	-	Refill Kit - Includes Pre-Filled LC Unit - Battery Pack	-625
PRO	250 cc	1 Day to 24 Mo. Programable	360 PSI	Battery Operated	-725
PRO	500 cc	1 Day to 24 Mo. Programable	360 PSI	Battery Operated	-750
PRO MP-6	250 cc	1 Day to 24 Mo. Programable	360 PSI	Battery Operated, 1-6 Lubrication Points	-726
PRO MP-6	500 cc	1 Day to 24 Mo. Programable	360 PSI	Battery Operated, 1-6 Lubrication Points	-756
PRO C	250 cc	Based on 100 Machine Hours	360 PSI	PLC Controlled / 12-30 Volts DC	-825
PRO C	500 cc	Based on 100 Machine Hours	360 PSI	PLC Controlled / 12-30 Volts DC	-850
PRO C MP-6	250 cc	Based on 100 Machine Hours	360 PSI	PLC Controlled / 12-30 Volts DC, 1-6 Lubrication Points	-826
PRO C MP-6	500 cc	Based on 100 Machine Hours	360 PSI	PLC Controlled / 12-30 Volts DC, 1-6 Lubrication Points	-856
PRO LV REFILL KIT	250 cc	-	-	Refill Kit - Includes Pre-Filled LV Unit - Battery Pack	-925
PRO LV REFILL KIT	500 cc	-	-	Refill Kit - Includes Pre-Filled LV Unit - Battery Pack	-950

LUBRIPLATE SYNTHETIC LUBRICANTS AVAILABLE IN PERMA LUBRICATORS

SYNTHETIC GREASES	SYNXTREME HD-2, SYN-1601, SYN-3001.
SYNTHETIC FOOD GRADE GREASES	SYNXTREME FG-0, SYNXTREME FG-1, SFL-0, SFL-1.

□ General Application & Interchange Recommendations

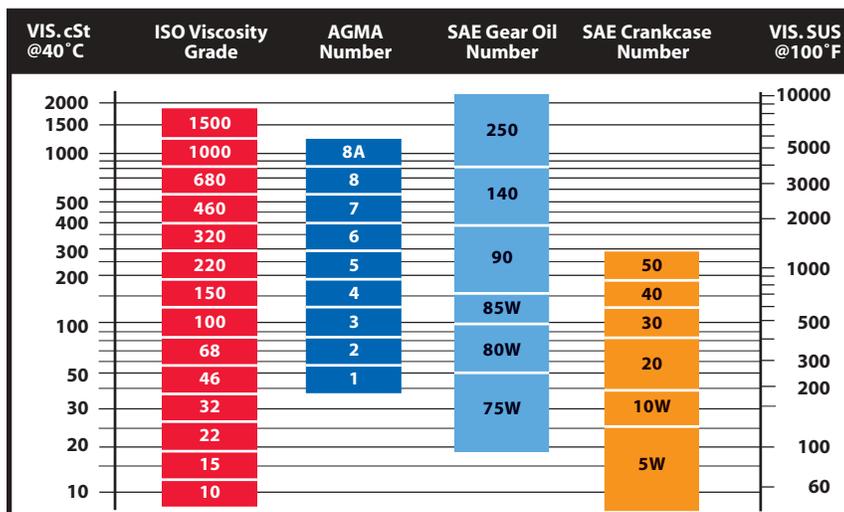
Lubriplate synthetic lubricants have been designed to deliver unsurpassed performance in a wide variety of applications, thus reducing the need to carry large inventories of application specific lubricants. Listed below are lubricants that will cover most general requirements. Refer to the OEM service manuals for specific lubrication recommendations. For additional information contact your local Lubriplate Distributor, Lubriplate District Manager (listed on page 15) or our Sales and Service Hotline (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	SYN-1602	SYNXTREME HD-2	SYN-1602	SYNXTREME FG-2**
GENERAL OIL	SYN LUBE-100	SYN LUBE-320	SYN LUBE-68	SFGO ULTRA-68**
CENTRALIZED SYSTEMS / GREASE	SYN-1600	SYNXTREME HD-0	SYNXTREME HD-0	SFL-0**
CENTRALIZED SYSTEMS / OIL	SYN LUBE-100	SYN LUBE-460	SYN LUBE-68	SFGO ULTRA 68**
GEARBOXES (HELICAL, SPUR)	SYN LUBE-220	SYN LUBE-320	SYN LUBE-150	SFGO ULTRA 220**
GEARBOXES (WORM)	SYN LUBE-460	SYN LUBE-680	SYN LUBE-320	SFGO ULTRA 680**
HYDRAULIC EQUIPMENT	SYN LUBE-68	SYN LUBE-100	SFGO ULTRA-7**	SFGO ULTRA 68**
AIR COMPRESSORS (RECIPROCATING)	SYN LUBE-68	SYN LUBE-100	SYN LUBE-32	SFGO ULTRA-68 or 100**
AIR COMPRESSORS (ROTARY SCREW)	SYN LUBE-32	SYN LUBE-46	SYN LUBE-22	SFGO ULTRA-46 or 68**
HIGH SPEED BEARINGS (OIL)	SYN LUBE-32	SYN LUBE-100	SYN LUBE-22	SFGO ULTRA-68**
HIGH SPEED BEARINGS (GREASE)	SYNXTREME HD-2	SYNXTREME HD-2	SYNXTREME HD-1	SYNXTREME FG-2**
LOW SPEED BEARINGS (OIL)	SYN LUBE-150	SYN LUBE-220	SYN LUBE-100	SFGO ULTRA 100**
LOW SPEED BEARINGS (GREASE)	SYN-1602	SYNXTREME HD-2	SYN-1601	SFL-2**
WHEEL BEARINGS (GREASE)	SYNXTREME HD-2	SYNXTREME HD-2	SYNXTREME HD-2	SYNXTREME FG-2**
SLIDES / CAMS	SYN-1602	SYN-1602	SYN-1602	SYNXTREME FG-2**
MIST SYSTEMS	SYN LUBE-100	SYN LUBE-100	SYN LUBE-32	SFGO ULTRA-68**
WIRE ROPE / CABLES / CHAINS	SFGO ULTRA-7**	SFGO ULTRA-7**	SFGO ULTRA-7**	SFGO ULTRA-7**
RUST / CORROSION PREVENTION	SFGO ULTRA-7**	SFGO ULTRA-7**	SFGO ULTRA-7**	SFGO ULTRA-7**
REFRIGERATION COMPRESSORS	68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68**

Lubriplate Synthetic Fluid Interchange Recommendations

MOBIL SHC	ISO GRADE	LUBRIPLATE H-2	LUBRIPLATE H-1	MOBILGEAR SHC	ISO GRADE	LUBRIPLATE H-2	LUBRIPLATE H-1**
SHC 524	32	SYN LUBE 32	SFGO ULTRA 32**	MOBILGEAR SHC 150	150	SYN LUBE HD 150	SFGO ULTRA 150**
SHC 525	46	SYN LUBE 46	SFGO ULTRA 46**	MOBILGEAR SHC 220	220	SYN LUBE HD 220	SFGO ULTRA 220**
SHC 526	68	SYN LUBE 68	SFGO ULTRA 68**	MOBILGEAR SHC 320	320	SYN LUBE HD 320	SFGO ULTRA 320**
SHC 624	32	SYN LUBE 32	SFGO ULTRA 32**	MOBILGEAR SHC 460	460	SYN LUBE HD 460	SFGO ULTRA 460**
SHC 626	68	SYN LUBE 68	SFGO ULTRA 68**	MOBILGEAR SHC 680	680	SYN LUBE HD 680	SFGO ULTRA 680**
SHC 627	100	SYN LUBE 100	SFGO ULTRA 100**	KLUBERSYNTH			
SHC 629	150	SYN LUBE 150	SFGO ULTRA 150**	UH-1 6-220	220	-	PGO FGL-220**
SHC 630	220	SYN LUBE 220	SFGO ULTRA 220**	UH-1 6-320	320	-	PGO FGL-320**
SHC 632	320	SYN LUBE 320	SFGO ULTRA 320**	UH-1 6-460	460	-	PGO FGL-460**
SHC 634	460	SYN LUBE 460	SFGO ULTRA 460**	GH-1 6-220	220	PGO-220	-
SHC 636	680	SYN LUBE 680	SFGO ULTRA 680**	GH-1 6-320	320	PGO-320	-
SHC 639	1000	SYN LUBE 1000	SFGO ULTRA 1000**	GH-1 6-460	460	PGO-460	-

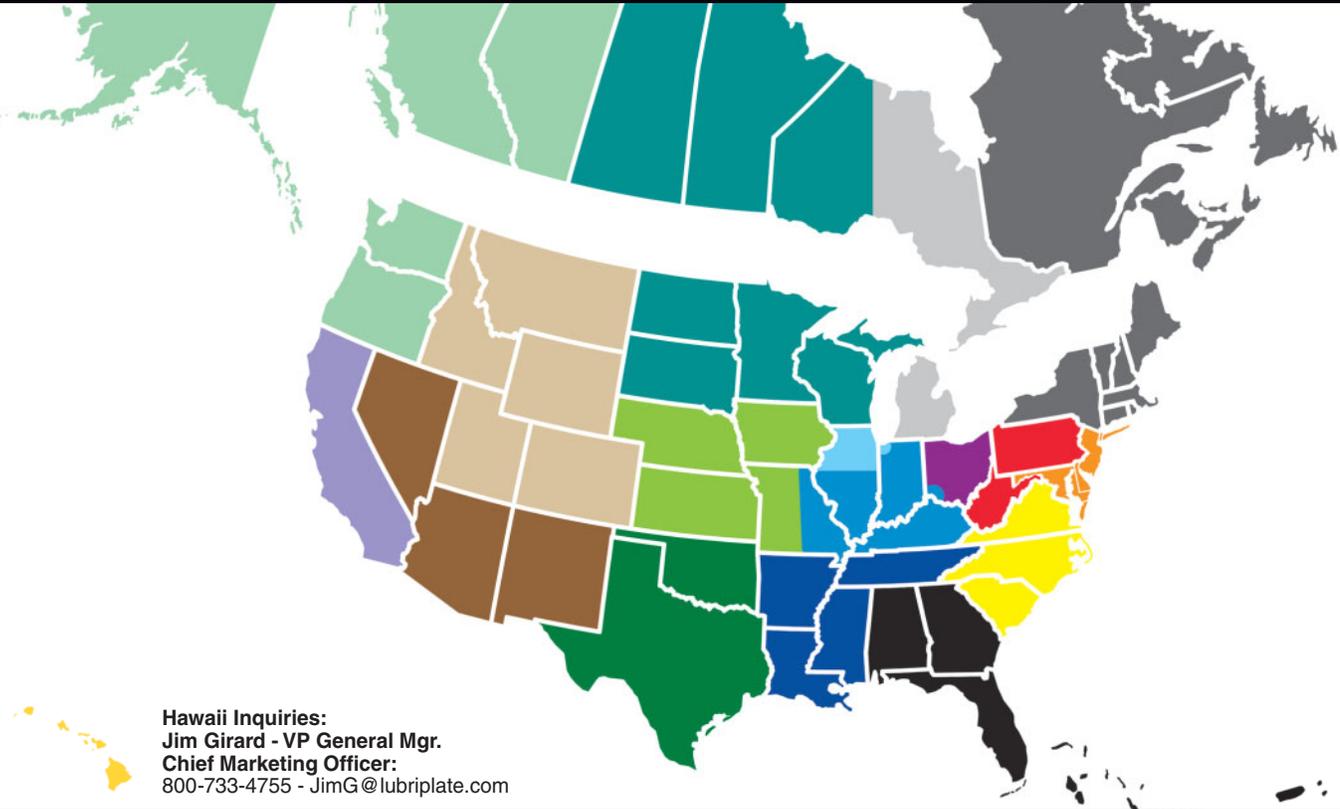
Oil Viscosity Classification Comparisons



NLGI Grease Classifications

NLGI NO.	DESCRIPTION	WORKED PENETRATION ASTM @ 77°F / 25°C
000	SEMI-FLUID	445 - 475
00	SEMI-FLUID	400 - 430
0	VERY-SOFT	355 - 385
1	SOFT	310 - 340
2	MEDIUM SOFT	265 - 295
3	MEDIUM	220 - 250
4	HARD	175 - 205
5-6	VERY HARD	85 - 160

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