

Advanced Lubricants For All Industries

Full Line Technical Data Book



■ Full Range Synthetic Fluids and Greases

■ Multi-Purpose Gear, Bearing, Chain and Recirculating Fluids and Oils

■ Compressor Fluids and Oils

■ Hydraulic Fluids and Oils

■ Specialty Lubricants

■ Multi-Purpose Greases

■ Environmentally Responsible Lubricants

■ NSF H1 Registered Food Machinery Lubricants

■ Spray Lubricants

■ Metalworking Fluids

■ Automotive Lubricants Motor Oils

■ Perma Automatic Lubricators



Lubriplate® Lubricants

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This catalog is available in the following languages:
Chinese, Danish, English, French, German, Polish, Portuguese, Spanish and Swedish.



Lubriplate Lubricants Company

Corporate Headquarters: 129 Lockwood Street / Newark, NJ 07105
Tel: 800-733-4755 / Fax 973-589-4432 / Fax 800-347-5329

Midwest Office & Plant: 1500 Oakdale Ave. / Toledo, OH 43605
Tel: 419-691-2491 / Fax 419-693-3806 / Fax 800-347-5348

www.lubriplate.com / Email: LubeXpert@lubriplate.com

To visit us on Facebook, Twitter or LinkedIn, go to www.lubriplate.com and click on the desired icon.



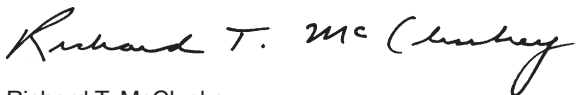
■ Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 145 years, our Company has manufactured and sold only the highest quality lubricants to all types of industry. The advent of ISO-9000 has given us the opportunity to prove that "we practice what we preach." As an ISO-9001 registered company, all of our employees have totally committed themselves to developing, manufacturing and selling quality products that meet and exceed your expectations. Our commitment to maintaining ISO-9001 certification provides us with a bright and strong future. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust.

Sincerely,



Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com



■ Complimentary Value Added Services Offered



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 back cover 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 PowerPoint presentations, 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. Our Online Training Program is available at: <http://www.lubriplate.com/Training-Videos/Lubrication-BasicTraining.aspx>

Synthetic, 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.

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.

Syn Lube XHD 3200: Extra Heavy-Duty, Polyalphaolefin (PAO)-Based, Synthetic Girth Gear Lubricant.

This extra heavy-duty, ISO 3200 viscosity grade lubricant is recommended for use on large heavy-duty girth gears commonly found in rotary kilns and for applications where an extra heavy-duty ISO 3200 viscosity grade lubricant is required.

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.

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 13 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.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY 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 26 more information and the package part number suffix.										
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 26 more information and the package part number suffix.										
SYN LUBE XHD 3200	L1006-	3200	-	-	3071 / 153	-	145	495°F / 257°C	580°F / 304°C	20°F / -7°C
*SYN LUBE XHD 3200 is available in 55 Gallon Drums. See page 26 for package part number suffix.										
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 26 more information and the package part number suffix.										
PGO-150	L0845-	150	4	90	150 / 25	-	232	>536°F / >280°C	-	-53°F / -47°C
PGO-220	L0838-	220	5	90	227 / 42	-	242	>536°F / >280°C	-	-44°F / -42°C
PGO-320	L0840-	320	6	140	334 / 59	-	247	>536°F / >280°C	-	-31°F / -35°C
PGO-460	L0839-	460	7	140	477 / 83	-	262	>536°F / >280°C	-	-33°F / -36°C
PGO-680	L0846-	680	8	250	725 / 122	-	272	>536°F / >280°C	-	-27°F / -33°C
*PGO Series Fluids are available in Jugs, Pails and Drums. See page 26 for more information and package part number suffix.										

Synthetic High Temperature Oven Chain and Gearbox Lubricants

Synthetic High Temp Fluids 68 and 220: 100% Ester-Based, Oven Chain and Gearbox Fluid Lubricants.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tender 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.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY 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	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 26 more information and the package part number suffix.										

Petroleum-Based, Gear, Bearing & Recirculating Oils

SPO Series: Extra-Duty Anti-Wear, Rust & Oxidation Inhibited (R&O) Gear and Bearing Oils.

Designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO oils can be used with silver alloy, copper, and copper alloy bearings. Excellent for use in high moisture and high temperature applications. Provides performance comparable to synthetic lubricants. SPO-MG is a semi-synthetic lubricant formulated with a unique blend of synthetic hydrocarbon and mineral oil base stocks. This base stock combination results in exceptional thermal and oxidation stability, extended drain intervals and improved performance.

APG Series: Heavy-Duty, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, extreme pressure oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gearboxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

Kling Gear Oils: Heavy-Duty, Tacky, Red, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, adhesive, extreme pressure oils cling tenaciously to gear teeth. Formulated for heavy service, these oils minimize wear and prolong the life of gears in automotive, truck, heavy equipment and industrial applications. Fortified with an additive system to accommodate extreme pressure and posi-traction applications. This series meets military specification MIL-PRF-2105E and conform to API classification GL-5.

CP-8A: Compounded (CP) Petroleum-Based Gear Oil.

Compounded with acidless tallow to meet AGMA 8ACP specification. Recommended for cone drives and double enveloping worm gears.

HO-3, HO-4, HO-5 & HO-6: High-Performance, Heavy-Duty, Multi-Functional Lubricating Oils.

These multi-functional oils are recommended for gear cases, bearings, central lubricating oil systems, air compressors, hydraulic systems and chains. Contains fluid zinc anti-wear additive. High aniline points for controlled seal-swelling characteristics. Excellent foam suppression properties.

Machine Tool Oils - No. 0 thru No. 8: Petroleum-Based Machine Oils.

Compounded to impart a unique load carrying film, exceptional lubricity, and anti-friction properties not found in conventional oils of the same viscosity.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	432 / 30	2260 / 148	101	475°F / 246°C	580°F / 304°C	15°F / -9°C
SPO-288	L0248-	680	8	250	628 / 38	3314 / 184	98	425°F / 218°C	525°F / 274°C	10°F / -12°C
SPO-299	L0249-	1000	8A	250	950 / 50	5100 / 245	99	450°F / 232°C	505°F / 263°C	10°F / -12°C
SPO-MG	L0252-	220	6	80W-140	237 / 25	1223 / 123	120	425°F / 218°C	465°F / 241°C	-25°F / -32°C
*SPO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums and Drums. SPO-222 & SPO-333 are also available in Permas. See page 26 & 27 for package part number suffix.										
APG-75	L0116-	32	-	75W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	67 / 9	356 / 58	113	380°F / 193°C	440°F / 227°C	-35°F / -37°C
APG 80W-90	L0030-	100	3 EP	80W-90	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	156 / 16	816 / 86	112	395°F / 202°C	440°F / 227°C	-20°F / -29°C
APG 80W-140	L0124-	320	6 EP	80W-140	248 / 25	1300 / 125	120	380°F / 193°C	410°F / 210°C	-25°F / -32°C
APG-140	L0119-	460	7 EP	85W-140	410 / 31	2220 / 152	107	405°F / 207°C	440°F / 227°C	0°F / -18°C
APG-250	L0120-	680	8 EP	250	701 / 42	3700 / 203	100	390°F / 199°C	450°F / 232°C	5°F / -15°C
*APG Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, APG 90 is also available in Tubes. See page 26 for package part number suffix.										
Kling 80W-90	L0212-	150	5 EP	80W-90	-	816 / 89	114	410°F / 210°C	460°F / 238°C	-25°F / -32°C
Kling 85W-140	L0213-	460	7 EP	85W-140	-	1866 / 140	107	390°F / 199°C	435°F / 224°C	-10°F / -23°C
*Kling Gear Oils are available in Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.										
CP-8A	L0141-	1000	8ACP	250	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C
*CP-8A is available in Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.										
HO-3	L0764-	150	4	85	151 / 15	690 / 75	98	505°F / 263°C	555°F / 291°C	0°F / -18°C
HO-4	L0765-	220	5	90	241 / 20	950 / 83	96	505°F / 263°C	565°F / 296°C	5°F / -15°C
HO-5	L0766-	320	6	90	349 / 26	1450 / 107	97	520°F / 271°C	575°F / 301°C	15°F / -9°C
HO-6	L0794-	460	7	140	447 / 30	2070 / 140	96	545°F / 285°C	625°F / 329°C	15°F / -9°C
*HO-3, HO-4, HO-5 & HO-6 are available in Jugs, Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.										
NO. 0	L0000-	7-10	-	-	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO. 1	L0002-	22	-	-	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO. 2	L0003-	46	1	75W	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO. 3V	L0009-	68	2	80W	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO. 3	L0005-	100	3	80W	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO. 4	L0011-	150	4	90	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO. 8	L0014-	460	7	140	432 / 28	2300 / 142	90	435°F / 224°C	515°F / 268°C	0°F / -18°C
*Machine Tool Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 26 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.

SynXtreme AC Series: Polyolester (POE)-Based, Biodegradable (Pw1), 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. Readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1).

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.

Syncool: Polyglycol/Ester-Based, 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 extends fluid change intervals.

Syncool FG: NSF H1 Registered, Food Machinery Grade, Synthetic, Polyglycolester (PGE) Air Compressor Fluid.

See page 17 for information on this fluid.

SFGO Ultra 22 - 100: NSF H1 Registered, Food Machinery Grade, (PAO)-Based, 100% Synthetic Fluids.

See page 17 for information on these fluids.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN LUBE 22	L0968-	22	5W	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	-55°F / -48°C
*Syn Lube Fluids 22 through 100 are available in Pails & Drums. See page 26 for package part number suffix.									
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 26 for more information and package part number suffix.									
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 26 for more information and package part number suffix.									
SYNCOOL	L0964-	32 / 46	10	41 / 8	-	172	530°F / 277°C	595°F / 313°C	-40°F / -40°C
*Syncool Fluid is available in Pails and Drums. See page 26 for more information and the package part number suffix.									



Petroleum-Based Air Compressor Oils

AC Series: Petroleum-Based, Anti-Wear Fortified Compressor Oils.

These high quality, petroleum-based air compressor oils are especially formulated to reduce carbon and varnish buildup. Formulated with fluid zinc to effectively fight friction and wear, thus reducing heat and foaming. Available in six ISO grades.

Turbine Oil 32: Petroleum-Based Oil For Centrifugal Air Compressors.

This high-performance, zinc-free fluid meets the requirements of most centrifugal air compressors. Provides excellent oxidation resistance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	29 / 5	137 / 43	116	425°F / 218°C	460°F / 238°C	-35°F / -37°C
AC-1	L0705-	46	20	42 / 7	196 / 47	104	470°F / 243°C	505°F / 263°C	-30°F / -34°C
AC-2	L0706-	68	20	74 / 9	336 / 57	104	500°F / 260°C	535°F / 279°C	-15°F / -26°C
AC-2A	L0707-	100	30	94 / 11	430 / 63	101	505°F / 263°C	550°F / 289°C	-10°F / -23°C
AC-3	L0708-	150	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / -23°C
AC-4	L0710-	220	40	205 / 18	950 / 83	95	495°F / 275°C	545°F / 285°C	0°F / -18°C
*AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 26 for more information and package part number suffix.									
Turbine Oil 32	L0942-	32	10	32 / 5	152 / 44	113	390°F / 199°C	440°F / 227°C	-10°F / -23°C
*Turbine Oil 32 is available in Drums. See page 26 for more information and the package part number suffix.									

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).

68-N: Naphthenic Refrigeration Compressor Fluid.

A highly refined naphthenic lubricant 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).

RCO-68FG: NSF H-1 Food Grade, Polyalphaolefin (PAO)-Based, Synthetic, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required. It is recommended for 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-500, R-501 and R-502 or where ammonia is used as the coolant. It is not recommended for use with HFC (hydrofluorocarbon) refrigerants such as HFC-134a. High performance formulation provides extended service life while minimizing the formation of harmful varnish and sludge deposits.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY 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
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
RCO-68 FG	L0818-	68	30	62 / 10	325 / 59	142	390°F / 199°C	545°F / 285°C	-60°F / -51°C
*68-P, 68-N and RCO-68 FG are available in Pails & Drums. See page 26 for more information and package part number suffix.									

Natural Gas Compressor Fluids

981: Synthetic Natural Gas Compressor Lubricant.

Formulated for use in hyper-compressors and natural gas reinjection applications. It may also be used as a cylinder lubricant for reciprocating compressors processing natural gas, carbon dioxide and other gases that require chemical resistance in an ISO 100 viscosity grade.

989: Synthetic Natural Gas Compressor Lubricant.

Designed for the lubrication of flooded rotary screw and vane-type compressors processing natural gas, carbon dioxide or other hydrocarbon gases. It may also be used as a cylinder lubricant for reciprocating compressors processing natural gas, carbon dioxide and other gases that require chemical resistance in an ISO 150 viscosity grade.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
981	L1009-	100	30	84 / 17	-	218	527°F / 275°C	-	-49°F / -45°C
989	L1010-	150	40	138 / 24	-	224	473°F / 245°C	518°F / 270°C	-43°F / -42°C
*981 and 989 are available in Pails & Drums. See page 26 for more information and the package part number suffix.									

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 VIS. GRADE	SAE NO.	AGMA NO.	SAE GEAR OIL NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	1	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	2	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	3	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	-55°F / -48°C

*Syn Lube Fluids 22 through 100 are available in Pails & Drums. See page 26 for more information and the package part number suffix.

SFGO Ultra 22 - 100: NSF H-1 Registered, Food Grade, Polyalphaolefin (PAO)-Based, 100% Synthetic Fluids.

See page 17 for information on these fluids.

Environmentally Responsible / Biodegradable Hydraulic Fluids:

See page 15 for information on these fluids.

Petroleum-Based Hydraulic Oils

HO Series: Petroleum-Based, Heavy-Duty Hydraulic Oils.

Formulated for superior performance, this series contains fluid zinc to effectively reduce ring and vane wear. High aniline points ensure long seal life with fewer leaks. They can withstand elevated temperatures and high pressures over extended drain intervals. High natural V.I. provides stable viscosities over a wide temperature range. Excellent ISO cleanliness ratings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	SAE NO.	AGMA NO.	SAE GEAR OIL NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	10	-	-	29 / 5	137 / 43	116	425°F / 218°C	460°F / 238°C	-35°F / -37°C
HO-1	L0761-	46	20	1	75	42 / 7	196 / 47	104	470°F / 243°C	505°F / 263°C	-30°F / -34°C
HO-2	L0762-	68	20	2	80	74 / 9	336 / 57	104	500°F / 260°C	535°F / 279°C	-15°F / -26°C
HO-2A	L0763-	100	30	3	80	94 / 11	430 / 62	101	505°F / 263°C	550°F / 288°C	-10°F / -23°C

*HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 26 for more information and the package part number suffix.

Low Temp Hydraulic Oils: Petroleum-Based Oils For Low Temperature Applications.

MV-HO Multi-Viscosity, Special Low Pour, and Minus 70 Hydraulic Oil are for low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	SAE NO.	AGMA NO.	SAE GEAR OIL NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	5W-20	-	75	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	5W-20	-	75W	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	5W-20	-	75W	16 / 6	84 / 45	340	200°F / 93°C	220°F / 104°C	-70°F / -57°C

*Low Temp Hydraulic Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 26 for more information and the package part number suffix.



Air Tool Lubricant:

Designed for both rotary and reciprocating types of air tools such as hammers, impact wrenches, air motors, grinders, reamers and drills. Proven excellent air line lubricant, used effectively on lift cylinders of can fillers in breweries, bottling plants. Removes gumming and sludge. Product Part No. L0713-. Available in bottles, jugs, pails, 1/4 drums and drums. See page 26 for packaging information and package part number suffix.

Jack Oil:

A heavy-duty, high pressure hydraulic oil, designed to meet the requirements of most jacks. Contains anti-wear and anti-corrosion additives. Product Part No. L0768-. See page 26 for packaging information and package part number suffix.

Bar & Chain Oil:

Formulated with special anti-wear additives to provide maximum protection to the bar and chain of all makes of chain saws. SAE grade 20. Good adhesion properties provide excellent resistance to "throw off" action. Part No. L0720-. Available in bottles, jugs and drums. See page 26 for more information and package part number suffix.

Chain & Cable Fluid / Chain & Cable Heavy:

Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. See page 26 for packaging information and package part number suffix.

Super Chain Oil:

A heavy polymer, tenacious, high flash point oil containing micro-fine graphite. Excellent for bakery ovens, drying ovens where temperatures do not exceed 450°F. / 232°C. Works well on floor chain conveyors, car wash lines, assembly lines. Flash point 520°F. / 271°C. Fire point 600°F. / 316°C. Product Part No. L0857-. Available in jugs, pails, 1/4 drums and drums. See page 26 for package part number suffix.

Syn Flush - Cleaning, Flushing, Lubricating Synthetic 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 petroleum/mineral oils as well as 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. Part No. L0962-. Available in pails and drums. See page 26 for package part number suffix.

Heat Transfer Oils:

These high flash and fire point oils are designed for exceptional heat transfer properties. For use on oil type heat exchangers in asphalt plants, roofer tar kettles, curing machines. Flash point 525°F. / 274°C. Fire Point 600°F. / 316°C. Available in ISO viscosity grades 32, Part No. L0757-, ISO 68, Part No. L0751-, and ISO 150 Part No. L0750-. Available in pails and drums. See page 26 for package part number suffix.

Rock Drill Oils 10R, 30R:

For all types of rock drills, air hammers and other pneumatic tools. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil. Available in jugs, pails, 1/4 drums and drums. See page 26 for more information and package part number suffix.

Mist Oil:

Designed to meet optimum requirements of mist applicators or fogging oil systems. Special oils and additives assure proper misting qualities. Mist oil provides superior wear protection against heavy loads. For machine tools, grinders, conveyor systems. SAE 30. Part No. L0177-. Available in Pails and Drums. See page 26 for package part number suffix.

Vacuum Pump Oil & Vacuum Pump Oil Light:

High performance, non-detergent mineral oils recommended for most rotary vane and rotary lobe vacuum pumps. They are designed to alleviate the sludge, carbon deposits and contamination problems commonly found in industrial vacuum pumps. Lubriplate Vacuum Pump Oil Light is recommended for vacuum pumps typically associated with delicate instrumentation. Vacuum Pump Oil is SAE-30 / ISO-100 grade. Part No. L0945-. Vacuum Pump Oil Light is SAE-10 / ISO-32 grade. Part No. L0944-. Available in bottles, jugs, pails and drums. See page 26 for more information and package part number suffix.

HO Special Hydraulic Oils:

HO-32, HO-46* and HO-68 meet the requirements and are approved by Abex-Denison HF-0 and HF-2, they are also accepted by Vickers specification M-2950-S. *Lubriplate HO-46 is approved by Cincinnati-Milacron under Specification P-70. Product Part Nos. HO-32, L0770-, HO-46, L0771-, HO-68, L0772-. Available in jugs, pails, 1/4 drums and drums. See page 26 for packaging information and package part number suffix.

Synthetic, High-Performance, Multi-Purpose 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. SYNXTREME HD-1/220 and HD-2/220 are formulated with a heavier (ISO 220 Grade) base fluid and are recommended for all types of bearings and other equipment operating under high temperature conditions.



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

SYN-1600 Series: High Performance, Multi-Purpose, 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.

SYN-3001 & SYN-3002: Moly-Fortified, Heavy-Duty, PAO-Based, Synthetic Lithium Complex Greases.

These high performance, heavy-duty, moly-fortified, 100% synthetic, lithium complex 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.

SYN-EMB: PAO-Based, Lithium Complex Type, 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.

SYN GR-132: PAO / Ester Combination-Based, Lithium Complex Type, 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.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE		ASTM DROP POINT
						MINIMUM	MAXIMUM	
SYNXTREME HD-0	L0403-	Calcium Sulfonate Complex	0	Synthetic PAO	100	-45°F / -43°C	390°F / 199°C	>600°F / 316°C
SYNXTREME HD-1	L0402-	Calcium Sulfonate Complex	1	Synthetic PAO	100	-45°F / -43°C	440°F / 227°C	>600°F / 316°C
SYNXTREME HD-2	L0401-	Calcium Sulfonate Complex	2	Synthetic PAO	100	-45°F / -43°C	450°F / 232°C	>600°F / 316°C
SYNXTREME HD-1/220	L0313-	Calcium Sulfonate Complex	1	Synthetic PAO	220	-40°F / -40°C	440°F / 227°C	>600°F / 316°C
SYNXTREME HD-2/220	L0312-	Calcium Sulfonate Complex	2	Synthetic PAO	220	-40°F / -40°C	450°F / 232°C	>600°F / 316°C
*SYNXTREME HD Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and the package part number suffix.								
SYN-1600	L0300-	Lithium Complex	0	Synthetic PAO	218	-40°F / -40°C	380°F / 193°C	500°F / 260°C
SYN-1601	L0301-	Lithium Complex	1	Synthetic PAO	218	-40°F / -40°C	400°F / 204°C	500°F / 260°C
SYN-1602	L0302-	Lithium Complex	2	Synthetic PAO	446	-30°F / -34°C	400°F / 204°C	500°F / 260°C
*SYN-1600 Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and the package part number suffix.								
SYN-3001	L0315-	Lithium Complex + Moly	1	Synthetic PAO	218	-40°F / -40°C	400°F / 204°C	500°F / 260°C
SYN-3002	L0316-	Lithium Complex + Moly	2	Synthetic PAO	446	-30°F / -34°C	400°F / 204°C	500°F / 260°C
*SYN-3001 & SYN-3002 Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and the package part number suffix.								
SYN-EMB	L0335-	Lithium Complex	2	Synthetic PAO	100	-40°F / -40°C	400°F / 204°C	500°F / 260°C
*SYN-EMB is available in Cartridges, Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.								
SYN GR-132	L0336-	Lithium Complex	2	Synthetic PAO / Ester	23	-49°F / -45°C	300°F / 149°C	445°F / 230°C
*SYN-GR-132 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.								



Petroleum Oil-Based, Multi-Purpose Greases

1500 Series: Lithium Complex Greases.

These multi-purpose lubricants can withstand higher temperatures than traditional lithium greases. They provide high film strength, excellent shear stability, long lubricant life, and exceptional anti-wear properties. 4 NLGI densities for a variety of applications.

LTR-2: Heavy-Duty, Tacky, Red, Lithium Complex Grease.

This rugged, tacky, highly water resistant, extreme pressure grease can withstand higher temperatures than traditional lithium greases. It is recommended for a wide variety of heavy-duty industrial, construction, quarry, aggregate and mining applications. Red in color.

1240 Series: Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

No. 1444: Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty construction and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water.

No. 3000 and 3000-W: Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. Fortified with molybdenum disulfide for extreme pressure applications. 3000-W is for cold ambient temperatures. Recommended for all types of heavy equipment.

730 Series: High Performance, Aluminum Complex Type Greases.

This series provides high load carrying ability and anti-wear protection with high resistance to water, steam, and other corrosive action. Available in 3 NLGI densities for a wide range of applications and temperatures.

No. 1200-2: Heavy-Duty, General Purpose, Lithium Type Grease.

This is an excellent, heavy-duty, general purpose, lithium type grease for both industrial and automotive applications. It provides a high film strength, great shear stability, anti-wear and extreme pressure additives.

630 Series: Multi-purpose Lithium-Based Greases.

Traditionally popular general purpose greases. Available in 4 N.L.G.I. Densities for a wide range of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
1500	L0163-	Lithium Complex	00	Petroleum Oil	200	-5°F / -21°C	275°F / 135°C	-
1550	L0164-	Lithium Complex	0	Petroleum Oil	200	-5°F / -21°C	350°F / 177°C	450°F / 232°C
1551	L0165-	Lithium Complex	1	Petroleum Oil	200	-5°F / -21°C	370°F / 188°C	470°F / 243°C
1552	L0166-	Lithium Complex	2	Petroleum Oil	200	0°F / -18°C	400°F / 204°C	500°F / 260°C
*1500 Series Greases are available in Pails, 1/4 Drums & Drums. No. 1551 & No. 1552 are also available in Cartridges and Perma Lubricators. See pages 26 and 27 for package part number suffix.								
LTR-2	L0167-	Lithium Complex	2	Petroleum Oil	460	5°F / -15°C	400°F / 204°C	505°F / 263°C
*LTR-2 is available in Cartridges, Pails, 1/4 Drums and Drums. See page 26 for more information and package part number suffix.								
1240	L0105-	Lithium Polymer	0	Petroleum Oil	237	5°F / -15°C	280°F / 138°C	400°F / 204°C
1241	L0104-	Lithium Polymer	1	Petroleum Oil	237	5°F / -15°C	290°F / 143°C	400°F / 204°C
1242	L0106-	Lithium Polymer	2	Petroleum Oil	237	15°F / -9°C	300°F / 149°C	425°F / 218°C
*1240 Series Greases are available in Cartridges, Cans, Pails, 1/4 Drums, Drums and Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.								
1444	L0227-	Aluminum Complex	2	Petroleum Oil	626	20°F / -7°C	400°F / 204°C	500°F / 260°C
*No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.								
3000	L0108-	Moly-Lithium	2	Petroleum Oil	237	15°F / -9°C	300°F / 149°C	450°F / 232°C
3000-W	L0107-	Moly-Lithium	1	Petroleum Oil	60	-30°F / -34°C	275°F / 135°C	375°F / 191°C
*3000 Series Greases are available in Cartridges, Cans, Pails, 1/4 Drums, Drums and Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.								
730-0	L0083-	Aluminum Complex	0	Petroleum Oil	151	-10°F / -23°C	375°F / 191°C	465°F / 241°C
730-1	L0084-	Aluminum Complex	1	Petroleum Oil	151	-10°F / -23°C	390°F / 199°C	540°F / 282°C
730-2	L0085-	Aluminum Complex	2	Petroleum Oil	151	-10°F / -23°C	400°F / 204°C	560°F / 293°C
*730 Series Greases are available in Cans, Pails, 1/4 Drums, Drums and Perma Lubricators. No. 730-2 is also available in Cartridges. See page 26 and 27 for package part number suffix.								
1200-2	L0102-	Lithium 12 Hydroxy	2	Petroleum Oil	183	-10°F / -23°C	300°F / 149°C	400°F / 204°C
*1200-2 is available in Cartridges, Cans, Pails, 1/4 Drums, Drums and Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.								
630-AAA	L0068-	Lithium	0	Petroleum Oil	151	10°F / -12°C	265°F / 129°C	360°F / 182°C
630-AA	L0067-	Lithium	1	Petroleum Oil	135	5°F / -15°C	270°F / 132°C	380°F / 193°C
630-2	L0072-	Lithium	2	Petroleum Oil	135	5°F / -15°C	275°F / 135°C	380°F / 193°C
630-A	L0066-	Lithium	2.5	Petroleum Oil	135	5°F / -15°C	275°F / 135°C	390°F / 199°C
*630 Series Greases are available in Cans, Pails, 1/4 Drums & Drums. 630-2 is available in Cartridges. 630-AA is available in tubes. 630-AA & 630-AAA are available in Permas. See page 26 & 27 for package part number suffix.								

■ Greases For Special Conditions / Applications

High Temp: Multi-Purpose, High Temperature, Bentone Type Grease.

Multi-Purpose, for high temperature applications. Non-melt type, workable from 40°F / 4°C to 500°F / 260°C with frequent lube intervals.

Low Temp: Multi-Purpose, Anhydrous Calcium Based Grease For Cold Temperatures.

Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

MAG-00 and MAG-1: Lithium Polymer Type Greases For Wide Range Of Temperatures.

These multi-purpose greases have a wide operating temperature range for variety of applications. Both work well in centralized/automatic lubricating systems. MAG-00 is a semi-fluid type grease that can also be used effectively in leaking gearboxes.

930 Series: Multi-Purpose, High Temperature, Bentone Type Greases.

Formulated for higher temperature applications. 930-AA & 930-AAA are recommended for centralized/automatic greasing systems.

100 & 130 Series: Calcium Type Greases.

These traditional greases are still available. Designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F / 77°C. No.105, NLGI 0, Pt. No. L0034-, No.107, NLGI 1, Pt. No. L0036-, No.110, NLGI 2.5, Pt. No. L0037-, No.115, NLGI 4, Pt. No. L0040-, No.130-AA, NLGI 1, Pt. No. L0044-, No.130-A, NLGI 2.5, Pt. No. L0043-.

*100 & 130 Series Greases are available in Cans, Pails, 1/4 Drums & Drums. No. 105 & 130-AA are also available in Tubes. See page 26 for package part number suffix.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE		ASTM DROP POINT
						MINIMUM	MAXIMUM	
HIGH TEMP	L0161-	Bentone	2	Petroleum Oil	497	40°F / 4°C	400°F / 204°C	NON-MELT
*HIGH TEMP is available in Cartridges, Cans, Pails, 1/4 Drums, Drums & Permas. See page 26 & 27 for package part number suffix.								
LOW TEMP	L0172-	Anhydrous Calcium	1.5	Petroleum Oil	16	-60°F / -51°C	225°F / 107°C	280°F / 138°C
*Low Temp is available in Tubes, Cartridges, Cans, Pails, 1/4 Drums and Drums. See page 26 for package part number suffix.								
MAG-00	L0186-	Lithium 12 Hydroxy	00	Petroleum Oil	23	-60°F / -51°C	204°F / 116°C	340°F / 171°C
MAG-1	L0189-	Lithium 12 Hydroxy	1	Petroleum Oil	23	-60°F / -51°C	300°F / 149°C	375°F / 191°C
*MAG-00 is available in Bottles, Jugs, Pails, 1/4 Drums, Drums & Permas. MAG-1 is available in Cartridges, Cans, Pails, 1/4 Drums, Drums & Permas. See page 26 & 27 for package part number suffix.								
930-AAA	L0098-	Bentone	0	Petroleum Oil	167	-0°F / -18°C	360°F / 182°C	NON-MELT
930-AA	L0096-	Bentone	1	Petroleum Oil	135	-0°F / -18°C	370°F / 188°C	NON-MELT
930-2	L0100-	Bentone	2	Petroleum Oil	135	5°F / -15°C	375°F / 191°C	NON-MELT
930-A	L0095-	Bentone	3	Petroleum Oil	135	5°F / -15°C	375°F / 191°C	NON-MELT
*930 Series Greases are available in Cans, Pails, 1/4 Drums & Drums. 930-AA & 930-2 are also available in Cartridges. 930-AA is also available in Permas. See page 26 & 27 for package part number suffix.								

■ Greases For Gearing

Gear Shield Series: Multi-Purpose, Lithium-Based, Open Gear Greases.

Made for all types of open/exposed gears. Gear Shield Extra Heavy is a thick, tacky and adhesive open gear grease for adverse conditions. Gear Shield Low Temp is for cold weather applications. Excellent fifth wheel lubricants.

No. 176: Inorganic / Organic, Open Gear Grease for Centralized Systems. No Solvents.

This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE		ASTM DROP POINT
						MINIMUM	MAXIMUM	
Gear Shield	L0150-	Lithium / Asphalt	1	Petroleum Oil	237	15°F / -9°C	265°F / 129°C	350°F / 177°C
Gear Shield Hvy	L0151-	Lithium / Asphalt	2	Petroleum Oil	432	15°F / -9°C	275°F / 135°C	365°F / 185°C
Gear Low Temp	L0173-	Lithium / Asphalt	2	Petroleum Oil	58	-40°F / -40°C	275°F / 135°C	400°F / 204°C
Gear Shield X Hvy	L0152-	Lithium / Asphalt	2.5	Petroleum Oil	432	20°F / -7°C	275°F / 135°C	370°F / 188°C
*Gear Shield Series Greases are available in Cans, Pails, 1/4 Drums & Drums. Gear Shield Extra Heavy is also available in Caulk Type Cartridges and Spray Cans. See page 26 for package part number suffix.								
No. 176	L0054-	Inorganic/Organic Combination	00	Petroleum Oil	313	25°F / -4°C	275°F / 135°C	NON-MELT
No. 176 is available in Pails, 1/4 Drums, Drums & Permas. See page 26 & 27 for package part number suffix.								

■ Specialty Greases

V-61 Silicone Faucet Valve Lubricant - NSF Certified 61: This special silicone grease lubricant designed to lubricate rubber and plastic O-rings (non-silicone type), faucet valves and other applications. NSF Certified Standard 61 and safe for drinking water system components. It is extremely resistant to a wide range of chemicals, dilute acids, alkalines and most aqueous solutions. It is highly resistant to water washout. This product is not compatible with oxygen (O₂) and should not be recommended for any application where there is a possibility of this product coming in contact with any form of oxygen (both liquid and gas). Available 5.3 oz / 150 g Plastic Tubes, Pt. No. L0217-084, 14.1 oz / 400 g Cartridges Pt. No. L0217-010 and 8 lb / 3.6 kg Plastic Tubs Pt. No. L0217-008.

EMB - Electric Motor Bearing Grease: This NLGI 2, lithium polymer type grease was developed specifically for the lubrication of high speed, electric motor bearings, fans and other high speed grease type ball and roller bearings. Part No. L0148-. Available in cans, cartridges, pails, 1/4 drums and Perma lubricators. See pages 26 & 27 for Package Part Number Suffix.

Poly HP-2: Polyurea-thickened type grease is formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications. Part No. L0191-. Available in pails, 1/4 drums and cartridges.

Power Hammer & Chisel Grease: This Heavy-Duty, extreme pressure type, aluminum complex grease with moly, copper and graphite, is made for use on most types of heavy-duty power hammers. Greatly extends shaft and bushing life. Product Part No. L0190-. Available in cartridges and pails. See page 26 for package part number suffix.

X-357: A special extreme pressure moly-fortified lubricant that penetrates and adheres, water resistant. Use on pintle hooks, slide axles, open gears, fifth wheels. Product Part No. L0149-. Available in pails, drums and spray cans. See page 26 for package part number suffix.

No. 777: This special grease lubricant has been approved by Ford Motor Co. specification ESF-M1C-26-A for use as a starter motor shaft lubricant. Also approved for starter drives on Evinrude / Johnson outboards. Product Part No. L0081-. See page 26 for packaging information.

No. 107 Concrete Form Release: This soft grease can easily be sprayed on form contact surfaces providing immediate release once the concrete is set. White in color, it will not stain the casting. Product Part No. L0036-. See page 26 for packaging information.

DS-ES Electric Switch Lubricant: Developed for the lubrication of electrical switch contacts. Used extensively in the automotive industry for switches, sockets, and wiring harness connectors. Excellent oxidation resistance and compatibility with metal, plastic and rubber. Product Part No. L0137-. Available in small tubes, cans, pails, 1/4 drums and drums. See page 26 for package part number suffix.

GR-132 Portable Tool Grease: A light viscosity oil combined with a lithium combination thickener makes GR-132 ideal for applications where fluid friction must be kept to a minimum. Ideal for the small gear cases in portable tools. Product Part No. L0158-.

Lithium Brick Grease: This NLGI No. 6 grade lithium grease is recommended for open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / Case 12 / 4 lb. Bricks, Part No. L0132-038.

Lithplex Brick Grease: This lithium complex type brick grease was developed to meet the lubrication requirements of open slot or open well type bearings commonly found at rock quarries and paper mills where the brick grease rides directly on the bearing shaft. The rotating motion of the bearing shaft wipes a film of lubricant onto the bearing surfaces keeping it properly lubricated. The 4 lb. bricks are easily cut into smaller pieces to place in the bearing opening. The size of the piece should be small enough to allow freedom of movement of the block while riding on the bearing surface. Its 525° F dropping point is a major advantage. Package / Case 12 / 4 lb. Bricks, Part No. L0133-038.

Aero: This NLGI 1, lithium type, low temperature grease for cold temperature applications down to -60°F. / -51°C. Provides low-torque start-up capability, excellent corrosion and oxidation resistance and wide compatibility with metals, plastic, and rubber. Excellent for garage door mechanisms. Part No. L0113-. Available in mini tubes, small tubes, cans, pails, 1/4 drums and drums. See page 26 for package part number suffix.

No. 5555: Semi-fluid, Anhydrous calcium type lubricant. Excellent for automatic lubricating systems operating in cold environments. Part Number L0109-. Available in bottles, jugs, pails, 1/4 drums and drums. See page 26 for package part number suffix.

Neptune Launching Base Coat: Used for many decades to launch virtually every type of ship from aircraft carriers to barges. This Base Coat will sustain loads of more than ten tons per square foot at 70°F. It is designed to be used in combination with Lubriplate Neptune Launching Slip Coat. Prior to application, the ways should be thoroughly dried. The Base Coat must be poured while hot and should be heated to a temperature sufficiently high so that it is in a liquid state at the point of application. Typically it is applied ¼" to ½" thick. After the base coat has hardened and cooled the Neptune Launching Slip Coat may then be applied. Packaging: 50 lb. Box, Part No. L0214-035 and 325 lb. Fiber Drums, Part No. L0214-040.

Neptune Launching Slip Coat: Designed to be applied over the hardened Neptune Base Coat layer. This Slip Coat is applied from the drum as is. It should not be heated prior to application. The Slip Coat is typically applied ¼" to ½" thick. The Slip Coat is orange in color making it distinguishable from the blue Base Coat. Packaging: 400 lb. Drums, Part No. L0215-040.

■ Environmentally Responsible 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

SynXtreme AC Series: Polyolester (POE)-Based, Biodegradable (Pw1), 100% Synthetic Compressor Fluids.

These state-of-the-art 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. Readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @ 40°C / 100°C	VISCOSITY 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 26 for more information and package part number suffix.

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

A high-performance, readily biodegradable, polyglycol/ester-based, 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	SAE NO.	VISCOSITY cSt @ 40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL	L0964-	32/46	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 26 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 13 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	>536°F / >280°C	-	-53°F / -47°C
PGO-220	L0838-	220	5	90	50	227 / 42	242	>536°F / >280°C	-	-44°F / -42°C
PGO-320	L0840-	320	6	140	60	334 / 59	247	>536°F / >280°C	-	-31°F / -35°C
PGO-460	L0839-	460	7	140	-	477 / 83	262	>536°F / >280°C	-	-33°F / -36°C
PGO-680	L0846-	680	8	250	-	725 / 122	272	>536°F / >280°C	-	-27°F / -33°C

*PGO Series Fluids are available in Jugs, Pails and Drums. See page 26 for more information and package part number suffix.

■ Environmentally Responsible, Bio-Based Lubricants



Bio-Based Series Hydraulic Oils: Ultimately Biodegradable(Pw1), Low Toxicity (LC-50), Vegetable-Based Oils.

For use in hydraulic systems where low toxicity and biodegradability properties are required. A zinc-free additive system delivers exceptional anti-wear, anti-rust, anti-foam and demulsibility properties. They meet ASTM D-5864 (Pw1) U.S. EPA and U.S. Fish and Wildlife requirements (LC50).

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
BIO-BASED 32	L1050-	32	-	-	10	31 / 7	184	457°F / 236°C	500°F / 260°C	-40°F / -40°C
BIO-BASED 46	L1051-	46	1	75W	20	44 / 10	199	469°F / 243°C	514°F / 268°C	-22°F / -30°C
BIO-BASED 68	L1052-	68	2	80W	20	64 / 13	198	484°F / 251°C	525°F / 274°C	-31°F / -35°C

*BIO-Based Series Hydraulic Oils are available in Pails and Drums and Spacecraft Bins. See page 26 for more information and package part number suffix.

UTF-Bio-Based/Green: Ultimately Biodegradable (Pw1), Vegetable-Based, Universal Tractor Fluid.

An ultimately biodegradable (Pw1), vegetable-based fluid, designed for use in agricultural, construction/industrial equipment where UTF type fluids are required. Meets the requirements of API GL-4 and most OEMs including: John Deere's Hygard, J20-C, J14A, Quantrol™ J20D, Allison C-3 and C-4, Cat TO-2, Case, Ford, Massey-Ferguson White Farm, Kubota, Steiger and others.

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
UTF-BIO-BASED/GREEN	L1072-	46	1	75W	20	48 - 10	210	484°F / 251°C	-	-38°F / -39°C

*UTF-Bio-Based/Green is available in 5 Gallon Pails and 55 Gallon Drums. See page 26 for more information and the package part number suffix.

Biodegradable Penetrating Oil Multi-Purpose Lubricating Fluid:

ECO-Friendly, Biodegradable, Vegetable-Based, Multi-Purpose Spray Lubricant.

An environmentally friendly, biodegradable, bio-based, lubricating oil for general lubrication of hinges, locks, latches, slides, chains, cables or anywhere metal contacts metal. Ideal for cars, boats, bicycles, garden equipment, guns, tools, office equipment, garage doors, farm equipment and golf courses. Provides a long lasting protective film that prevents friction, wear, rust and corrosion. Excellent moisture displacement properties.

Available in 11 OZ. / 312 g. spray can, Part No. L0721-063. and in 14 OZ. / 414 ml.

non-aerosol, hand pump, spray bottle. Part No. L0721-067.



■ ECO-Responsible, Petroleum/Mineral Oil-Based Hydraulic Oils

Marine-Safe Hydraulic Oils: Non-Toxic to Aquatic Life (LC-50).

Formulated a zinc free anti-wear additive package, these high-performance hydraulic fluids meet or exceed the performance requirements of most types of hydraulic equipment while providing an additional level of environmental safety. Lubriplate Marine-Safe Hydraulic Oils are non-toxic to aquatic life, exceeding U.S. EPA LC50 and U.S. Fish and Wildlife requirements. They pass the U.S. Coast Guard Static Sheen Test Requirements. They meet the service requirements of Vickers, Racine, Denison HF-0, HF-2 and Cincinnati Milacron P-68, P-69 and P-70. They offer excellent oxidation stability and extended fluid change 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
Marine-Safe 32	L0822-	32	-	-	10	33 / 6	110	395°F / 202°C	455°F / 235°C	-45°F / -43°C
Marine-Safe 46	L0823-	46	1	75W	20	44 / 7	108	425°F / 218°C	470°F / 243°C	-35°F / -37°C
Marine-Safe 68	L0824-	68	2	80W	20	68 / 9	104	445°F / 229°C	520°F / 271°C	-20°F / -29°C

*Marine-Safe 32 through 68 is available in 5 Gallon Pails and 55 Gallon Drums. See page 26 for more information and the package part number suffix.

ZF Series Hydraulic Fluids: Heavy-Duty, Zinc-Free, Extended Life, Hydraulic Fluids.

These heavy-duty, high performance fluids were designed to perform in the most demanding hydraulic applications. They can withstand elevated temperatures and high pressures over extended periods thus providing long service life and extended fluid change intervals. They meet the service requirements of Vickers (Eaton) M-2950-S, I-286-S, General Motors LS-2, Bosch Rexroth RE 90 220, Denison HF-0, HF-1, HF-2 and Cincinnati Milacron P-68, P-69 and P-70. Lubriplate ZF Series Hydraulic Fluids are free of zinc or silicone compounds. Passes LC50.

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
ZF 32	L0948-	32	-	-	10	35 / 5	129	440°F / 227°C	480°F / 249°C	-40°F / -40°C
ZF 46	L0949-	46	1	75W	20	46 / 6	117	470°F / 243°C	510°F / 266°C	-35°F / -37°C
ZF 68	L0950-	68	2	80W	20	70 / 8	106	475°F / 246°C	510°F / 266°C	-20°F / -29°C
ZF 100	L0953-	100	3	80W	30	101 / 11	97	475°F / 246°C	545°F / 285°C	-10°F / -23°C

*ZF Series Fluids are available in 5 Gallon Pails and 55 Gallon Drums. See page 26 for more information and the package part number suffix.

■ Lubriplate® NSF H1 Registered, Food Grade Lubricants

Lubriplate's complete line of high-performance, NSF H1 Registered, Food Machinery Grade Lubricants is designed to provide total food processing and bottling plant lubrication capability. Manufactured under strict NSF/ISO 21469 Certified and ISO 9001 Registered quality assurance standards, these lubricants are formulated from the highest quality base stocks combined with state-of-the-art anti-wear additives. They deliver a number of significant, cost effective advantages as outlined on the chart below.

All Lubriplate H1 Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact. They meet NSF H1 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 HACCP programs.

LUBRI-ARMOUR®
Anti-Microbial Additive
EPA Reg. No. 86389-1

Select Lubriplate H1 Lubricants are formulated with LUBRI-ARMOUR® Anti-Microbial Additive. Developed to prevent the decomposition of lubricants caused by microorganisms, greases treated with LUBRI-ARMOUR® remain fresh and last longer in harsh food processing plant environments.



FEATURES	BENEFITS
Advanced High-Performance Formulations	Improved machinery life; decreased wear; reduced power consumption; extended lube intervals.
NSF H1 Registered Products	Assures compliance with USDA / FDA guidelines and HACCP programs.
Multifunctional use	Reduces, consolidates and simplifies lubricant inventories and reduces lubricant misapplication.
Toll Free Technical Support 800-347-5343	Quick response to your lubrication questions.
Complimentary Plant Surveys	Identify opportunities for lubricant inventory consolidation and improvements.
No-charge Oil/Fluid and Grease Analysis	Helps determine lubricant and/or machinery condition and corrective measures needed.

F.D.A. CODES (CFR) FOR LUBRICANTS WITH INCIDENTAL FOOD CONTACT

21.CFR 178-3570	Ingredients used to manufacture H1 lubricants must comply with this code. / All Lubriplate H-1 products comply with this code.
21.CFR 178-3620	Technical White Mineral Oil as a component of non-food articles intended for use in contact with food. / The FMO Series complies.
21.CFR 172-878	USP White Mineral Oil for direct contact with food. / Lubriplate FMO Series complies with this code.
All of the mineral oil based products in the LUBRIPLATE H1 range are formulated with USP White Mineral Oil which is both the purest and highest quality base oil any manufacturer can use to formulate H1 lubricants.	
21.CFR 172-882	Synthetic isoparaffinic hydrocarbons, i.e., PAO base stocks / Lubriplate SFGO Ultra Series, SFL Series and the SYNXTREME FG Series.
21.CFR 182 with 9 subheadings	Substances Generally Recognized As Safe, e.g., zinc oxide and tocopherols (Vitamin E.)

NSF Registration Numbers and Category Codes for Lubriplate Food Machinery Lubricants.

LUBRIPLATE PRODUCT	NSF REG. NUMBER	CLASS CODE	LUBRIPLATE PRODUCT	NSF REG. NUMBER	CLASS CODE	LUBRIPLATE PRODUCT	NSF REG. NUMBER	CLASS CODE
CLEARPLEX -1	140575	H1	FP-150	126123	H1	SFGO ULTRA 320	125540	H1
CLEARPLEX -2	129940	H1	FP-150-L	126124	H1	SFGO ULTRA 460	125541	H1
FG COOKER OIL	122669	H1	HTCL FG-68	143869	H1	SFGO ULTRA 680	125542	H1
FGL-00	043532	H1	HTCL FG-220	143870	H1	SFGO ULTRA 1000	125543	H1
FGL-0	043531	H1	GEN. PUR. FG SILICONE (AEROSOL)	126086	H1	SFL-000	136256	H1
FGL-1	043534	H1	PAN DIVIDER OIL	139787	3H, H1	SFL-00	113092	H1
FGL-2	043536	H1	PDO LIGHT	142304	3H, H1	SFL-0	119618	H1
FGL-CC	043530	H1	PGO-FGL 150	141192	H1	SFL-1	043677	H1
FMO-45	122688	3H, H1	PGO-FGL 220	141193	H1	SFL-2	113093	H1
FMO-85	122674	3H, H1	PGO-FGL 320	141194	H1	SILICONE FLUID FG-350	138305	H1
FMO-200	122689	3H, H1	PGO-FGL 460	141195	H1	SPECIAL COOKER CHAIN GREASE	120918	H1
FMO-300	122783	H1	PGO-FGL 680	141196	H1	SSO-FG-100	138390	H1
FMO-350	122666	3H, H1	PM-500	126122	H1	SSO-FG-150	138391	H1
FMO-500	122672	3H, H1	PURE FLUSH	126121	H1	STO-FG	126120	H1
FMO-85-AW	122670	H1	PURE TAC	043649	H1	SUPER FGL-1 (AEROSOL)	126088	H1
FMO-150-AW	132661	H1, HT1	PURE TAC LIGHT	141506	H1	SUPER FML-0	125742	H1
FMO-200-AW	122668	H1	RCO-68 FG	138533	H1	SUPER FML-1	125740	H1
FMO-350-AW	122665	H1	SFGO ULTRA-7 (AEROSOL)	136601	H1	SUPER FML-2	125741	H1
FMO 350 AW SPRAY	126089	H1	SFGO ULTRA 7	125679	H1	SUPER FML-2 (AEROSOL)	126087	H1
FMO-500-AW	122664	H1	SFGO ULTRA 15	138420	H1	SYN H-1 220	138317	H1
FMO-500-AW-OR	124778	H1	SFGO ULTRA 22	138421	H1	SYN H-1 WORM GEAR LUBRICANT	139198	H1
FMO-500-AW-OR (D)	135986	H1	SFGO ULTRA 32	125680	H1, HT1	SYN ST HP H-1 SPECIAL SILICONE	142599	H1
FMO-900-AW	122675	H1	SFGO ULTRA 46	125678	H1	SYNXTREME FG-0	137239	H1
FMO-1100-AW	122687	H1	SFGO ULTRA 68	125681	H1	SYNXTREME FG-1	137238	H1
FMO-1700-AW	122667	H1	SFGO ULTRA 100	125682	H1	SYNXTREME FG-2	136212	H1
FMO-2400-AW	122671	H1	SFGO ULTRA 150	125683	H1	SYNXTREME FG-1/220	142237	H1
FMO-3800-AW	122673	H1	SFGO ULTRA 220	125539	H1	SYNXTREME FG-2/220	142239	H1

SFGO Ultra Series: 100% Synthetic, Polyalphaolefin (PAO)-Based, High-Performance, Multi-Purpose 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 GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	104	305°F / 152°C	400°F / 204°C	-65°F / -54°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 39	122	405°F / 207°C	435°F / 224°C	-60°F / -51°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	30 / 6	160 / 46	135	475°F / 246°C	515°F / 268°C	-58°F / -50°C
SFGO Ultra-46	L0916-	46	1	80	20	50 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-45°F / -43°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	141	495°F / 257°C	530°F / 277°C	-45°F / -43°C
SFGO Ultra-100	L0983-	100	3	85	40	98 / 14	556 / 77	145	485°F / 252°C	520°F / 271°C	-43°F / -42°C
SFGO Ultra-150	L0984-	150	4	90	50	146 / 19	762 / 97	141	495°F / 257°C	525°F / 274°C	-43°F / -42°C
SFGO Ultra-220	L0985-	220	5	90	50	222 / 26	1088 / 128	146	520°F / 271°C	540°F / 282°C	-42°F / -41°C
SFGO Ultra-320	L0986-	320	6	140	60	318 / 34	1557 / 161	152	520°F / 271°C	545°F / 285°C	-40°F / -40°C
SFGO Ultra-460	L0987-	460	7	140	-	452 / 46	2143 / 211	159	480°F / 249°C	515°F / 268°C	-40°F / -40°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 26 for more information and package part number suffix.

OEM / Lubriplate H1 Class Air Compressor Fluid Crossover Recommendations

Ingersoll-Rand SSR H-1 F	Lubriplate SFGO Ultra 32	Leroi SSL-46	Lubriplate SFGO Ultra 46
Ingersoll-Rand FG Coolant	Lubriplate SFGO Ultra 46	Quincy Quin Syn FG	Lubriplate SFGO Ultra 46
Compair CSX 20	Lubriplate SFGO Ultra 46	Gardner Denver AEON 6000 FG	Lubriplate SFGO Ultra 46
Kaesar Sigma 8000 FG	Lubriplate SFGO Ultra 46	Atlas-Copco GA-FG	Lubriplate SFGO Ultra 32

See page 7 for information on RCO-68FG Refrigeration Compressor Fluid

Syncool FG: NSF H1 Registered, 100% Synthetic, Polyglycolester (PGE) Air Compressor Fluid.

Recommended for use in high performance rotary screw and rotary vane air compressors where high operating temperatures are present. State of the art additives enhance its inherent outstanding performance characteristics. Readily biodegradable. NSF H1 registered, food machinery grade.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL FG	L0963-	46	20	41 / 10	-	178	530°F / 277°C	595°F / 313°C	-45°F / -43°C

*Syncool FG Fluid is available in Jugs, Pails, Drums and Bulk Bins. See page 26 for more information and package part number suffix.

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

These high quality, fully synthetic lubricants are designed for use in Angelus and Zacmi 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 GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY 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 26 for more information and 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.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
PGO-FGL-150	L0810-	150	4	90	40	150 / 25	725 / 122	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	-	-	-	272	549°F / 287°C	-	-27°F / -33°C

*All PGO-FGL Series Fluids are available in Jugs, Pails and Drums. PGO-FGL-460 is also available in Quart Bottles. See page 26 for more information and package part number suffix.

■ Synthetic, High-Temperature Oven Chain Lubricants NSF H1 Registered

HTCL-FG 220 and HTCL-FG 68: 100% Synthetic, Polyol Ester (POE)-Based, Oven Chain Lubricants.

These 100% synthetic, Polyol Ester (POE)-Based fluids are specifically designed for use on oven chains in food manufacturing operations where incidental food contact is a possibility. Recommended for use on bakery oven chains and other oven chain applications, including; drying oven chains, tender frame chains, heat-treating chains and paint curing oven chains. The combination of an ashless additive system and the synthetic ester base provide protection against wear, rust, oxidation and corrosion. They eliminate carbon build-up on chains and help maintain a clean lubricated surface. HTCL-FG 68 can be fed through micro lube systems, spray systems, mist systems, drip bottle systems and can be hand applied. They do not contain harmful VOC's which pollute the atmosphere. Superior film strength reduces oil consumption and reduces smoke. High auto-ignition temperatures (>700°F / 371°C) reduce the risk of oven fires. Advanced ester chemistry reduces friction, wear and energy costs.

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
HTCL-FG 220	L0947-	220	5	90	-	224 / 20	-	575°F / 302°C	-	-
HTCL-FG 68	L0946-	68	2	80	-	68 / 11	-	575°F / 302°C	-	-

*HTCL-FG 220 & HTCL-FG 68 are available in Pails and Drums. See page 26 for more information and package part number suffix.

■ Synthetic Food Machinery Grade Greases NSF H1 Registered

SYNXTREME FG-Series:

Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Greases.

NSF H1 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. SYNXTREME FG-1/220 and FG-2/220 are formulated with a heavier (ISO 220 Grade) base fluid and are recommended for all types of bearings and other equipment operating under high temperature conditions. **SYNXTREME FG-1/220 and FG-2/220 Contain LUBRI-ARMOUR Anti-Microbial Additive.**



This series is also available in Pails, 1/4 Drums, Drums & Perma Lubricators.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
SYNXTREME FG-0	L0307-	Calcium Sulfonate Complex	0	Synthetic PAO	100	-45°F / -43°C	390°F / 199°C	>600°F / 316°C
SYNXTREME FG-1	L0306-	Calcium Sulfonate Complex	1	Synthetic PAO	100	-45°F / -43°C	440°F / 227°C	>600°F / 316°C
SYNXTREME FG-2	L0305-	Calcium Sulfonate Complex	2	Synthetic PAO	100	-45°F / -43°C	450°F / 232°C	>600°F / 316°C
SYNXTREME FG-1/220	L0311-	Calcium Sulfonate Complex	1	Synthetic PAO	220	-40°F / -40°C	440°F / 227°C	>600°F / 316°C
SYNXTREME FG-2/220	L0309-	Calcium Sulfonate Complex	2	Synthetic PAO	220	-40°F / -40°C	450°F / 232°C	>600°F / 316°C

*SYNXTREME FG Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and 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. **Contains LUBRI-ARMOUR Anti-Microbial Additive.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
SFL-00	L0195-	Aluminum Complex	00	Synthetic PAO	39	-60°F / -51°C	300°F / 149°C	400°F / 204°C
SFL-0	L0196-	Aluminum Complex	0	Synthetic PAO	39	-60°F / -51°C	325°F / 163°C	425°F / 218°C
SFL-1	L0197-	Aluminum Complex	1	Synthetic PAO	39	-60°F / -51°C	350°F / 177°C	450°F / 232°C
SFL-2	L0198-	Aluminum Complex	2	Synthetic PAO	219	-40°F / -40°C	400°F / 204°C	500°F / 260°C

*SFL Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.

SYN ST High Performance H-1 Special: Food Machinery Grade Silicone Lubricant.

Manufactured with PTFE, this new H1, N.L.G.I. No. 3, silicone lubricant is compatible with most rubber and other non-silicone elastomers. Recommended for use on O-rings and seals on bottling, dairy, food processing and dispensing equipment, it is highly resistant to hot water, steam and alkaline solutions. This product is not compatible with oxygen (O₂) and should not be recommended for any application where there is a possibility of this product coming in contact with any form of oxygen (both liquid and gas).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 25°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
SYN-ST H-1 Spec	L0365-	PTFE	3	Silicone	500	-58°F / -50°C	300°F / 149°C	500°F / 260°C

*SYN ST High Performance H-1 Special is available in Tubes, Cartridges and Pails. See page 26 for more information and package part number suffix.

FMO-AW Series: Multi-Purpose, Food Grade USP White Mineral Oils.

These super multi-purpose, anti-wear fortified, USP White mineral oil based lubricants are manufactured in ten ISO grades for a wide variety of applications. NOTE: FMO-350AW is also available in a orange color which helps in leak detection. The original FMO Series products without the anti-wear additive system are still available. FMO-1100AW and FMO-2400AW pass 12 stages of the FZG test.

FMO Series 45 thru 500: Multi-Purpose, Direct Contact (NSF H1 & 3H Registered) USP White Mineral Oils.

These multi-purpose, pure USP white mineral oils offer the utmost in purity. They comply with FDA regulations 21.CFR 178-3570, 21.CFR 178-3620 and 21.CFR 172-878 and are NSF H1 & 3H registered for use in applications where there is direct contact with the edible product.

FP-150 and FP-150L: Clear, Tacky, Multi-Purpose Oils.

These clear, tacky, adhesive, NSF H1 Registered oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Food Grade Cooker Oil: For Cookers and Sterilizers.

This zinc free, NSF H1 Registered oil is designed for use in the Manzel Lubricators and Micro-valve systems found on most cookers and sterilizers used in canning operations and other applications involving high temperature and high humidity conditions.

Seamer Oil FG Series: Food Grade, USP Mineral Oils For Can Seaming Equipment.

These high performance, USP mineral oil-based, food grade seamer oils are specifically designed to lubricate can seaming machines with once-through oil systems as well as those that utilize oil re-circulating/filtration systems. Recommended for Angelus Seamer Models 61H, 120L, 121L, 140S & 180S.

STO-FG Oil: For Bottle Filling Machines.

A non-corrosive, NSF H1 Registered, food machinery grade oil for lubricating stirrups on bottle filling machines.

PM 500 White Oil: Contains Emulsifying Agents.

This oil contains emulsifying agents that wet the lubricated surfaces and provide an oily film. Used very successfully on pear machines.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	22	-	-	5W	21 / 4	102 / 40	107	345°F / 174°C	365°F / 185°C	-30°F / -34°C
FMO-150 AW	L0879-	32	-	-	10W	31 / 5	146 / 44	107	400°F / 204°C	450°F / 232°C	-20°F / -29°C
FMO-200 AW	L0881-	46	1	75	10	47 / 7	196 / 48	103	455°F / 235°C	490°F / 254°C	-15°F / -26°C
FMO-350 AW	L0882-	68	2	80	20	65 / 9	347 / 55	102	480°F / 249°C	515°F / 268°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	95 / 11	545 / 70	101	500°F / 260°C	555°F / 291°C	5°F / -15°C
FMO-900 AW	L0884-	150	4	90	40	164 / 16	856 / 83	102	475°F / 246°C	530°F / 277°C	5°F / -15°C
FMO-1100 AW	L0886-	220	5	90	50	207 / 18	1126 / 97	99	455°F / 235°C	510°F / 266°C	10°F / -12°C
FMO-1700 AW	L0887-	320	6	140	60	301 / 23	1730 / 12	96	440°F / 227°C	490°F / 254°C	10°F / -12°C
FMO-2400 AW	L0885-	460	7	140	70	429 / 30	2350 / 142	98	445°F / 229°C	490°F / 254°C	15°F / -10°C
FMO-3800 AW	L0888-	680	8	250	-	700 / 41	3864 / 198	98	425°F / 218°C	475°F / 246°C	20°F / -7°C
*FMO-AW Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.											
FMO-45	L0737-	5	-	-	-	4 / -	40 / -	-	265°F / 129°C	-	30°F / -1°C
FMO-85	L0740-	15-22	-	-	5W	19 / 4	100 / 40	122	335°F / 168°C	370°F / 188°C	-45°F / -43°C
FMO-200	L0739-	46	1	75	10	41 / 6	200 / 47	105	405°F / 207°C	433°F / 223°C	-25°F / -32°C
FMO-350	L0741-	68	2	80	20	68 / 8	347 / 55	104	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500	L0742-	100	3	80	30	109 / 12	545 / 70	101	510°F / 266°C	555°F / 290°C	0°F / -18°C
*FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.											
FP-150	L0735-	460	7	140	70	367 / 25	1950 / 127	93	395°F / 202°C	455°F / 235°C	0°F / -18°C
FP-150L	L0736-	100	3	80	30	103 / 12	510 / 67	108	410°F / 210°C	450°F / 232°C	-5°F / -21°C
*FP-150 and FP-150L are available in Jugs, Pails, 1/4 Drums & Drums. See page 26 for more information and package part number suffix.											
FG Cooker Oil	L0701-	150	4	90	40	155 / 16	795 / 82	104	475°F / 246°C	525°F / 274°C	5°F / -15°C
*FG Cooker Oil is available in Drums. See page 26 for more information and package part number suffix.											
Seamer Oil FG-100	L0908-	100	3	80	30	109 / 12	-	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
Seamer Oil FG-150	L0909-	150	4	90	40	151 / 14	-	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
*Seamer Oil FG-100 and Seamer Oil FG-150 is available in Drums. See page 26 for more information and package part number suffix.											
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
*STO-FG is available in Pails & Drums. See page 26 for more information and package part number suffix.											
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
*PM-500 is available in Pails, 1/4 Drums & Drums. See page 26 for more information and package part number suffix.											

Pan Divider Oil and PDO Light: Food Grade, USP White Mineral Oils For Pan Divider Applications.

These oils meet and exceed FDA regulation 21 CFR 172.878 for direct contact with food. Recommended for pan divider oil applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
Pan Divider Oil	L0747-	15	5W	15.6	85 / 38	-	375°F / 190°C	-	10°F / -12°C
PDO Light	L0853-	7	-	6.7 - 10.5	-	83	350°F / 177°C	-	-

*Pan Divider Oil and PDO Light is available in Pails & Drums. See page 26 for more information and package part number suffix.

■ **USP Mineral Oil-Based, Food Machinery Grade Greases** NSF H1 Registered

FGL Series:

High Performance, Multi-Purpose, Aluminum Complex, Food Grade Greases.

Designed to meet the demands of food and beverage industry plant engineers who want NSF H1 Registered greases to totally replace H2 greases. Fortified with anti-wear, anti-rust and anti-corrosion additives which combine to yield excellent shear stability, load carrying capability and resistance to water and caustic wash down. Available in four NLGI densities for a variety of applications. FGL-CC is for centralized/automatic lubrication systems on high speed can closing equipment. **Contains LUBRI-ARMOUR Anti-Microbial Additive.**



This series is also available in Cans, Pails, 1/4 Drums, Drums & Perma Lubricators.

FML Series: Multi-Purpose, Anhydrous Calcium, Food Grade Greases.

These very popular, white, multi-purpose greases have been leaders in the food processing industry for years. Available in 3 NLGI grades for a wide variety of applications. NSF H1 Registered.

PURE TAC and PURE TAC LIGHT: Tacky, Adhesive, Aluminum Complex, Food Grade Greases.

These tacky, adhesive, highly water resistant, NSF H1 Registered greases are designed for applications subjected to chemically treated water, heat and steam. For all types of medium to slow speed bearings, open gears and hydrostatic cooker chains. **Contains LUBRI-ARMOUR Anti-Microbial Additive.**

CLEARPLEX Series: Clear, Multi-Purpose, Aluminum Complex, Food Grade Greases.

These Aluminum Complex thickened, NSF H1 Registered greases are engineered for use in plain and anti-friction bearings in the food processing and beverage processing industry. CLEARPLEX-1 is excellent for the lubrication systems of high speed can seaming and closing equipment. Contains non-zinc oxide anti-wear additive. CLEARPLEX Series greases. **Contains LUBRI-ARMOUR Anti-Microbial Additive.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
FGL-00	L0226-	Aluminum Complex	00	USP White Mineral Oil	120	-0°F / -18°C	300°F / 149°C	410°F / 210°C
FGL-CC	L0229-	Aluminum Complex	0/00	USP White Mineral Oil	120	-10°F / -23°C	350°F / 177°C	450°F / 232°C
FGL-0	L0230-	Aluminum Complex	0	USP White Mineral Oil	120	-0°F / -18°C	335°F / 168°C	435°F / 224°C
FGL-1	L0231-	Aluminum Complex	1	USP White Mineral Oil	120	-0°F / -18°C	360°F / 182°C	460°F / 238°C
FGL-2	L0232-	Aluminum Complex	2	USP White Mineral Oil	160	10°F / -12°C	400°F / 204°C	515°F / 268°C
*FGL Series greases are available in Cans, Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.								
FML-0	L0143-	Anhydrous Calcium	0	USP White Mineral Oil	144	10°F / -12°C	190°F / 88°C	280°F / 138°C
FML-1	L0144-	Anhydrous Calcium	1	USP White Mineral Oil	144	10°F / -12°C	200°F / 93°C	285°F / 141°C
FML-2	L0145-	Anhydrous Calcium	2	USP White Mineral Oil	144	10°F / -12°C	200°F / 93°C	285°F / 141°C
*FML Series greases are available in Cans, Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.								
PURE TAC	L0236-	Aluminum Complex	2	USP White Mineral Oil	1187	20°F / -7°C	400°F / 204°C	520°F / 271°C
PURE TAC LT.	L0235-	Aluminum Complex	1.5	USP White Mineral Oil	600	10°F / -12°C	388°F / 198°C	446°F / 230°C
*PURE TAC & PURE TAC LIGHT are available in Cartridges, Pails, 1/4 Drums & Drums. PURE TAC is available in Perma Lubricators. See pages 26 and 27 for package part number suffix.								
CLEARPLEX-1	L0350-	Aluminum Complex	1	USP White Mineral Oil	100	0°F / -18°C	360°F / 182°C	465°F / 240°C
CLEARPLEX-2	L0351-	Aluminum Complex	2	USP White Mineral Oil	150	10°F / -12°C	400°F / 204°C	450°F / 232°C

*CLEARPLEX Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See pages 26 and 27 for more information and package part number suffix.

■ Food Machinery Grade Spray Lubricants NSF H1 Registered

FGL-1 Spray: Class H1 lubricant in handy, easy to use 11 OZ. / 312 g. spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives. **Contains LUBRI-ARMOUR Anti-Microbial Additive.** Part No. L0231-063.

FMO-350-AW Spray: A multi-purpose, Anti-wear fortified, food machinery oil, in easy to apply spray can. For use where a Class H1 oil is required. Part No. L0882-063.

Super FML-2 Spray: A Class H1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H1 lubricant is required. Part No. L0145-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic, chain and penetrating fluid spray lubricant, for use on bottling, dairy and food processing machinery. For chains, slides, tools and general lubrication. Part No. L0912-063.

Food Grade Silicone Lubricant: A multi-purpose, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, chains, O-rings, rubber seals and general lubrication. Part No. L0723-063.

FMO-85-AW Spray: A multi-purpose Class H1 oil. Packed in 14 OZ. / 414 ml non-aerosol pump spray bottle. Part No. L0880-067.



■ Cleansing, Flushing and Lubricating Fluid / Oil NSF H1 Registered

Syn Flush FG: A 100% synthetic, modern technology product designed to clean various pieces of equipment where a switch from an H2 to an NSF H1 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 H1 Registered. Product Part No. L0961-. Available in bottles, pails & drums. See page 26 for package part number suffix.

Pure Flush: This NSF H1 Registered, lubricating, flushing and cleansing oil is to be used along with the existing lubricant to clean equipment without dismantling. It can be used to clean and flush bearings, gear cases, hydraulic systems, centralized lubricating systems, air lines, chains and air tools. It is fully compatible with petroleum based lubricants and most petroleum compatible synthetics. Product Part No. L0816-. Available in bottles, jugs, pails, 1/4 drums & drums. See page 26 for package part number suffix.

■ Food Machinery Oils Class H2**

No. 72-C Oil: Class H2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter.

No. 78 Cooker Oil: For use in Manzel lubricators for A-B cookers and sterilizers, FMC cookers. Corrosion and oxidation resistant.

STO-4 Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H2.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
72-C	L0703-	150	4	90	40	151 / 13	750 / 75	110	490°F / 254°C	520°F / 271°C	15°F / -9°C
78	L0700-	150	4	90	40	164 / 15	850 / 82	99	475°F / 246°C	565°F / 296°C	-20°F / -29°C
STO-4	L0860-	46	1	75	20	45 / -	255 / 47	70	320°F / 160°C	370°F / 188°C	-30°F / -34°C

*All H-2 Class Oils are available in Drums. No. 78 and STO-4 are also available in Pails. See page 26 for package part number suffix.

■ Multi-Purpose Spray Lubricants

Chain & Cable Fluid - Penetrating Oil:

A superior, cleansing, non-gumming penetrating oil for wire rope, chains, cables and general lubrication. Prevents rust and corrosion and protects brightwork. Loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 11 OZ. / 311.8 g. spray can. Part No. L0135-063.

Spray Lube “A” - White Lithium Grease:

A multi-purpose, white lithium-based lubricant of medium density. Sprays like a fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. 11 OZ. / 311.8 g. spray can. Part No. L0034-063.

Gear Shield Extra Heavy:

Developed for easy lubrication of open gears. A tough, tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

X-357 - Extreme Pressure Lubricant:

An extreme pressure lubricant that penetrates and adheres. Water resistant and unaffected by temperature extremes. For use on pintle hooks, slide axles, open gears, fifth wheels. Contains moly-disulfide. Packed in 11 OZ. / 311.8 g. spray can. Part No. L0149-063.

Marine & Auto Guard:

Multi-purpose penetrating oil. An excellent “wet start” product. Spray on wet plug wires and distributor cap. Excellent moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. 12 OZ. / 340 g. spray can. Part No. L0774-063.

Oil Well In a Bottle™:

An excellent multi-purpose, penetrating oil ideal for slides, hinges, rollers, cables, frozen nuts and bolts. Prevents rust and corrosion. Moisture displacing agent works on wet ignition for “wet start.” Packed in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0188-067.

Biodegradable Penetrating Oil Multi-Purpose Lubricating Fluid:

See page 15 for information on this product.

Food Machinery Grade Spray Lubricants:

See page 21 for information on these lubricants.



■ Metalworking Fluids

Metalworking Fluid Aerosol:

A specially developed product for metalworking operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063.

Darl No. 2 Cutting Oil: Multi-purpose dark cutting oil for all types of machining operations on a wide range of metals including steel, copper, brass, and aluminum. *Product Part No. L0520-.

No. 405 Dark Cutting Oil: A Heavy-duty, dark cutting oil recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels. Not recommended for brass, bronze, copper, or aluminum. *Product Part No. L0587-.

Flokoool XX Cutting Oil: Multi-purpose cutting oil for high speed machining operations. Appears transparent on the workpiece and will drain off the completed parts quickly. Not recommended for brass, bronze, or copper. *Product Part No. L0530-.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. *Product Part No. L0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. *Product Part No. L0576-.

Cut-n-Cool: Heavy duty, water soluble cutting oil fortified with both sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. May stain brass, bronze, and copper if not cleaned off work shortly after use. *Product Part No. L0514-.



■ Automotive Lubricants

Lubriplate No. 105 Motor Assembly Grease:

A smooth light-bodied grease which contains a **zinc-oxide anti-wear additive** made especially for motor assembly and engine rebuilding. This product prevents “Dry Start.” It provides necessary lubrication during initial start up before the motor oil has circulated. Prevents damage from scuffing scoring and friction. Protects freshly machined engine parts from rust and corrosion. Packed in 10 oz / 284 g plastic tube. Part No. L0034-094.

Wheel Bearing Grease:

A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 26 for package part number suffix.

Special Auto Marine Grease:

A super multi-purpose, high temperature, water repellent, extreme pressure grease for automotive and marine uses. Available in 14 oz. Cans Part No. L0206-001 and 14.5 oz. Cartridges Part No. L0206-098.

No. 105 “B” Tube General Purpose Grease:

The original white grease in handy tube. Ideal for locks, latches, hinges, wiper mechanisms, speedometer cables, or anywhere you need a light-bodied, grease type lubricant. Part No. L0034-086.

No. 110 Brake Lubricant:

This water repellent grease is designed for the contact points where the brake shoes rest on the backing plate and for the automatic adjusters inside the brake assembly. Product Part No. L0037- Available in Cans, Pails, 1/4 Drums and Drums.



■ Motor Oils and Transmission Fluids

Super GPO Heavy-Duty Motor Oils:

Designed for naturally aspirated and turbo-charged diesel, gasoline and LP gas engines. Ideal for mixed fleets, construction equipment, trucks and automobiles. API service CJ-4, CF-4 (15W-40 & 10W-30), CF, CF-2, CE, CD, SH, SJ, MIL-L-2104G and MIL-L-46152E. SAE 30, Pt. No. L0749-, SAE 40, Pt. No. L0752-, SAE 10W-30, Pt. No. L0754-, SAE 15W-40, Pt. No. L0755-.

Super HDS Motor Oil:

Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. These heavy-duty motor oils contains ZDDP anti-wear additive. For service SJ / CF. MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 5W-20, Pt. No. L0789-, SAE 30, Pt. No. L0791-, SAE 40, Pt. No. L0792-, SAE 50, Pt. No. L0793-.

Super 345, SAE 5W-30 Long Mileage Motor Oil:

Designed for today's smaller automobile engines. For service SJ / CF / ILSAC GF-1. Energy Conserving II. Part No. L0732-.

Non-Detergent Motor Oil:

A top quality non-detergent motor oil. For use where detergent oils are not required or desired. For service SA. SAE 10W, Pt. No. L0804-, SAE 20-20W, Pt. No. L0806-, SAE 30, Pt. No. L0807-, SAE 40, Pt. No. L0808, SAE 50, Pt. No. L0809-.

DEXRON III / MERCON Automatic Transmission Fluid:

Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-.

Hydraulic-Transmission Fluid Type UTF:

For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.



General Application Recommendations

Lubriplate 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. For additional information, contact your local Lubriplate Distributor, Lubriplate District Manager (listed on back cover) or call our Sales and Service Hotline at (800)733-4755.

▶ For specific OEM approvals, OEM recommendations and field history product usage reports, contact our OEM Specialist, Ellen Girard at: 908-489-7355 or EGirard@lubriplate.com.

General Application Recommendations

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYNXTREME HD-2	MAG-1 / SYN-1601
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYNXTREME HD-0	MAG-00 / 1550
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68
GEARBOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150
GEARBOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SYN-LUBE-22
AIR COMPRESSORS (RECIPROCATING)	SYNAC-100	SYNAC-150	SYNAC-100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	No. 1 / SYN-LUBE-32
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYNX HD-2	1552 / POLY HP-2 / SYNXTREME HD-2	MAG-1 / GR-132 / SYN-1601
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYNXTREME HD-2	MAG-1 / SYN-1601
WHEEL BEARINGS (GREASE)	1552 / SYNXTREME HD-2	1552 / SYNXTREME HD-2	1552 / SYNXTREME HD-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYNXTREME HD-2	MAG-1 / SYN-1601
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	Chain & Cable Heavy	Chain & Cable Fluid
RUST / CORROSION PREVENTION	Chain & Cable FI / SFGO ULTRA-7*	Chain & Cable FI / SFGO ULTRA-7*	Chain & Cable FI / SFGO ULTRA-7*
ENGINE REBUILDING	105	105	105
MOLY GREASE (MOS ₂)	3000 / SYN-3002	3000 / SYN-3002	3000W / SYN-3002
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.		

NSF H1 Registered, Food Processing Plant Application Recommendations

APPLICATIONS	LUBRIPLATE H1 PRODUCT*	APPLICATIONS	LUBRIPLATE H1 PRODUCT*
• GENERAL GREASING - NORMAL TEMPS HIGH TEMPERATURES LOW TEMPERATURES	SYNXTREME FG-2* or FGL-2* SYNXTREME FG-2* or FGL-2* SYNXTREME FG-1* or SFL-1*	• DRAFT & VENTILATING FANS GREASE OIL	SYNXTREME FG-2* or FGL-2* SFGO ULTRA-68* or FMO-350AW*
• GENERAL OILING	SFGO ULTRA-68* or FMO-350AW*	• STIRRUPS - BOTTLE FILLERS	STO-FG*
• CENTRALIZED GREASING SYSTEMS	FGL-0* or FGL-00*	• PEACH PITTERS - CHAIN DRIVES	FP-150L* or FP-150*
• SLIDES, CAMS, EXPOSED GEARS	PURE TAC*	• SEAMING ROLLS, SPINDLES, CHUCKS	SYNXTREME FG-1* or FGL-1*
• CHAINS, CONVEYORS, WIRE ROPE MEDIUM TEMPERATURES HIGH TEMPERATURES	SFGO ULTRA-7* or FP-150L* PGO-FGL-220*	• COOKERS - CARRIER BEARINGS	SYNXTREME FG-2* or PURE TAC*
• ENCLOSED GEAR CASES HELICAL GEARS WORM GEARS	SFGO ULTRA-220* or FMO-1100AW* SFGO ULTRA-460* or FMO-2400AW*	• COOKER VALVE LUBRICATION (MANZEL LUBRICATORS)	FOOD GRADE COOKER OIL*
• HOT BRAKE BEARINGS	SYNXTREME FG-2* or PURE TAC*	• CAN SEAMING & CLOSING MACHINES (AUTOMATIC LUBRICATORS)	SSO-FG-100* SSO-FG-150* or SFGO ULTRA-100* SEAMER OIL FG-100* or SEAMER OIL FG-150*
• AIR COMPRESSORS RECIPROCATING AIR COMPRESSORS ROTARY SCREW REFRIGERATION COMPRESSORS	SFGO ULTRA-68* or SFGO ULTRA 100* SFGO ULTRA-32* or SFGO ULTRA 46* RCO-68*	• SIGHT FEED OILERS	PM-500* or FP-150L*
• AIR LINE SYSTEMS	FMO-85AW* or FMO-150AW*	• ELECTRIC MOTOR BEARINGS	SYNXTREME FG-1* or FGL-1*
• HYDRAULIC SYSTEMS - NORMAL TEMPS LOW TEMPERATURES	SFGO ULTRA-68* or FMO-350AW* SFGO ULTRA-7* or FMO-85AW*	• STEAM VALVES & PEELERS	Consult LUBRIPLATE Tech Service 1-800-347-5343
• HIGH SPEED BEARINGS GREASE OIL	SFL-1* or FGL-1* SFGO ULTRA-32* or FMO-150AW*	• SCRUBBERS GREASE FITTINGS CHAIN DRIVES	SYNXTREME FG-2* or FGL-2* FP-150L* or FP-150*
• CHEMICAL & CONDENSATE PUMPS GREASE OIL	SYNXTREME FG-2* or FGL-2* SFGO ULTRA-68* or FMO-350AW*	• FORKLIFTS WHEEL BEARINGS HYDRAULIC OIL CHAIN LIFTS	SYNXTREME FG-2* or PURE TAC* SFGO ULTRA-68* or FMO-350AW* FP-150L*
• VACUUM PUMPS	SFGO ULTRA-68* or SFGO ULTRA 100*	• RUST PREVENTATIVE, LAYING UP	SFGO ULTRA-7* or FMO-350AW*
		• CLEANSING & FLUSHING FLUID / OIL	SYNFLUSH FG* or PURE FLUSH*
		• PAN DIVIDER OIL	PAN DIVIDER OIL*
		• LUBRIPLATE WHITE OILS	FMO SERIES*

Interchange / Crossover Recommendations

EXXON / MOBIL	ISO GRADE	LUBRIPLATE	EXXON / MOBIL	ISO GRADE	LUBRIPLATE
SHC 524	32	SYN LUBE 32	SHC CIBUS 32	32	SFGO ULTRA 32*
SHC 525	46	SYN LUBE 46	SHC CIBUS 46	46	SFGO ULTRA 46*
SHC 526	68	SYN LUBE 68	SHC CIBUS 68	68	SFGO ULTRA 68*
SHC 624	32	SYN LUBE 32	SHC CIBUS 150	150	SFGO ULTRA 150*
SHC 626	68	SYN LUBE 68	SHC CIBUS 220	220	SFGO ULTRA 220*
SHC 627	100	SYN LUBE 100	SHC CIBUS 320	320	SFGO ULTRA 320*
SHC 629	150	SYN LUBE 150	SHC CIBUS 460	460	SFGO ULTRA 460*
SHC 630	220	SYN LUBE 220	MOBILGEAR SHC 150	150	SYN LUBE HD 150
SHC 632	320	SYN LUBE 320	MOBILGEAR SHC 220	220	SYN LUBE HD 220
SHC 634	460	SYN LUBE 460	MOBILGEAR SHC 320	320	SYN LUBE HD 320
SHC 636	680	SYN LUBE 680	MOBILGEAR SHC 460	460	SYN LUBE HD 460
SHC 639	1000	SYN LUBE 1000	MOBILGEAR SHC 680	680	SYN LUBE HD 680

KLUBER	ISO GRADE	LUBRIPLATE	KLUBER	ISO GRADE	LUBRIPLATE	KLUBER	ISO GRADE	LUBRIPLATE
KLUBEROIL 4UH1-100	100	SFGO ULTRA 100*	KLUBERSYNTH UH-1 6-150	150	PGO FGL-150*	KLUBERSYNTH GH 6-150	150	PGO-150
KLUBEROIL 4UH1-150	150	SFGO ULTRA 150*	KLUBERSYNTH UH-1 6-220	220	PGO FGL-220*	KLUBERSYNTH GH 6-220	220	PGO-220
KLUBEROIL 4UH1-220	220	SFGO ULTRA 220*	KLUBERSYNTH UH-1 6-320	320	PGO FGL-320*	KLUBERSYNTH GH 6-320	320	PGO-320
KLUBEROIL 4UH1-320	320	SFGO ULTRA 320*	KLUBERSYNTH UH-1 6-460	460	PGO FGL-460*	KLUBERSYNTH GH 6-460	460	PGO-460
KLUBEROIL 4UH1-460	460	SFGO ULTRA 460*	KLUBERSYNTH UH-1 6-680	680	PGO FGL-680*	KLUBERSYNTH GH 6-680	680	PGO-680
KLUBEROIL 4UH1-680	680	SFGO ULTRA 680*						

Before changing to Lubriplate PGO and PGO-FGL fluids, the sump must be drained.

Oil Viscosity Classification Comparisons

cSt @40°C	ISO GRADE	AGMA NO.	SAE GEAR OIL	SAE NO.	SUS @100°F
2000	1500	8A	250		10000
1500	1000	8			5000
1000	680	7	140		3000
500	460	6			2000
400	320	5	90	50	1000
300	220	4	85W	40	500
200	150	3	80W	30	300
100	100	2	75W	20	200
50	68	1		10W	100
30	46			5W	60
20	32				
10	22				
	15				
	10				

NLGI Grease Classifications

NLGI NUMBER	DESCRIPTION	WORKED PENETRATION
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

OEM / Lubriplate Air Compressor Fluid Interchange / Crossover Recommendations

ATLAS-COPCO	LUBRIPLATE	GARDNER DENVER	LUBRIPLATE	INGERSOLL-RAND	LUBRIPLATE
GA-8K	Syn Lube 46	AEON 9000 or AEON 9000 SP	Syn Lube 46	XHP-505	Syn Lube 68
HD Roto Fluid	Syn Lube 46	AEON PD	Syn Lube 220	XL-T-30	Syn Lube 100
HD Roto Fluid Plus	Syn Lube 46	AEON PD-XD	Syn Lube 320	SL-200 (for oil free)	AC-1
Roto Extend	Syn Lube 46	AEON PD FG	SFGO Ultra 220*	SSR Ultra Coolant	Syncool or Syncool FG*
Roto Z	Syn Lube 68	AEON BIO or AEON TH	SynXtreme AC-46	SSR Ultra Plus Coolant	SynXtreme AC-32
Roto Injection Fluid	AC-1	AEON PG	Syncool or Syncool FG*	Techrol Gold	Syncool or Syncool FG*
GA-4K	AC-1	AEON 2000 or GD-500-10W	AC-0	Original SSR Coolant	Synac 68
GA-OK	Synac 32	AEON 4000	AC-1	XL-700	Synac 100
GA-FG	SFGO Ultra 32*	AEON 500 or AEON 800	AC-2	XL-740 HT	Synac 150
Paroil M	Syn Lube 46	AEON AC-HC	AC-2	T-30 Select	Synac 100
COMPAIR	LUBRIPLATE	GD-500-20W	AC-2	SSR H-1 F	SFGO Ultra 32*
Hydrovane 2000	Synac 100	GD-500-30	AC-2A	FG Coolant	SFGO Ultra 46*
CN 300	Synac 100	AEON 8000	Synac 68	PALATEK	LUBRIPLATE
CS 100	Synac 32	AEON AC-SY	Synac 100	Palasyn 45	Syn Lube 46
CS 500 XL	Synac 46	AEON 5000	Synac 100	Pallube 32	Syncool or Syncool FG*
CS 5000 XL	Synac 68	GD 5000 or GD 5000-30	Synac 100	Palatek AFX 32	SynXtreme AC-32
CS 200	Synac 68	AEON 6000 FG	SFGO Ultra 46*	Palaextra	SynXtreme AC-46
CS 300	Synac 100	AEON-AC-FG	SFGO Ultra 100*	Palatek Food Grade 32	SFGO Ultra 32*
CS 400	Synac 150	AEON B-30	SFGO Ultra 100*	LEROI	LUBRIPLATE
CSX 20	SFGO Ultra 46*	AEON B-40	SFGO Ultra 150*	SSL-46 or SSL-46 Plus	Syn Lube 46
KAESER	LUBRIPLATE	COMP CLEAN II	Synflush or Synflush FG*	SSL-32	AC-0
Sigma 8000 S-320	Syn Lube 32	QUINCY	LUBRIPLATE	SSL-38	AC-1
Sigma 8000 S-460	Syn Lube 46	Quincy PG Ester 46	Syncool or Syncool FG*	SSL-50 (Semi-Synthetic)	AC-1 or Syn Lube 46
Sigma 8000 S-680	Syn Lube 68	QuinSyn PG	Syncool or Syncool FG*	SSL-CN SAE 30	AC-2
Sigma 4000 M-460 (Semi-Synthetic)	AC-1 or Syn Lube 46	QuinSyn or QuinSyn Plus	Syn Lube 46	SSL-46 FG	SFGO Ultra 46*
Sigma 4000 M-100 (Semi-Synthetic)	AC-2A or Syn Lube 100	QuinSyn Edge	Syn Lube 46	Cleaner	Synflush or Synflush FG*
Sigma 4000 M-150 (Semi-Synthetic)	AC-3 or Syn Lube 150	QuinSyn HP	SynXtreme AC-46	SULLAIR	LUBRIPLATE
325 R	Synac 32	QuinSyn Endure	SynXtreme AC-46	LLL-4-32	Syn Lube 32
466 R	Synac 46	QuinSyn XP	SynXtreme AC-68	LLL-4-46	Syn Lube 46
687 R	Synac 68	QuinSyn Flex	Synac 46	LLL-4-100	Syn Lube 100
Sigma 8000 S-100	Synac 100	QuinSyn FG or QuinSyn FG-46	SFGO Ultra 46*	LLL-4-150	Syn Lube 150
Sigma 8000 S-150	Synac 150	QuinSyn Flushing Oil	Synflush or Synflush FG*	SRF 2-8000	Syn Lube 32
150P	AC-2A	CURTIS TOLEDO	LUBRIPLATE	Sullube	Syncool or Syncool FG*
175 P	AC-3	RS 12,000	SynXtreme AC-46	Sullair AW F 32	AC-0
Sigma 8000 FG	SFGO Ultra 46*	RS-4000 FG	SFGO Ultra 46*	SRF-1/4000	AC-1

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	MINI TUBES 3/8 OZ / 10.6 g	SMALL TUBES 1.75 OZ / 50 g	TUBES 10 OZ / 284 g	SPRAY CANS ⁽¹⁾ NET WT. VARIES BY PRODUCT	CARTRIDGES ⁽²⁾ 14.5 OZ / 411 g	SM. CANS 14 OZ / 397 g	CANS / 6 CTN 6 LB / 2.72 kg	BOTTLES 1 QUART / 946 ml 2 LB / .907 kg	JUGS 1 GAL / 3.79 L 7 LB / 3.18 kg
Synthetic Fluids	-	-	-	-063	-	-	-	-	-057
Air Compressor Fluids / Oils	-	-	-	-	-	-	-	-054	-057
Hydraulic Oils	-	-	-	-	-	-	-	-	-057
*Greases	-076	-086	-092	-063	-098	-001	-006	-	-
*Petroleum Based Gear Oils	-	-	-092	-	-	-	-	-013	-007
*Specialty Greases	-076	-086	-	-063	-098	-001	-006	-	-
Specialty Oils & Fluids	-	-	-	-	-	-	-	-054	-057
Food Grade Fluids / Oils	-	-	-	-063	-	-	-	-054	-057
*Food Grade Greases	-	-	-	-063	098	001	-006	-	-
Motor Oils / Trans. Fluids	-	-	-	-	-	-	-	-054	-
Metalworking Fluids / Oils	-	-	-	-063	-	-	-	-	-057
Package Specifications									
Case Quantity	288	36	36	12	40	24	6	12	4
Aprox. Dimensions / Inches	10.25x9x8	6x6x7	13x12.5x11.5	11x8.5x8	19.5x11.5x10.5	14x10.5x8	20x13.5x7.5	13x9.5x9	14.5x10x10.5
Avg. Gross Shipping Weight	-	-	-	12 lbs / 5.4 kg	-	-	-	26 lbs / 11.8 kg	26 lbs / 11.8 kg
*Avg. Gross Shipping Weight	10 lbs / 4.5 kg	5 lbs / 2.3 kg	29 lbs / 13.2 kg	12 lbs / 5.4 kg	44 lbs / 20 kg	29 lbs / 13.2 kg	43 lbs / 19.5 kg	27 lbs / 12.3 kg	34 lbs / 15.4 kg

(1) Oil Well In a Bottle, Biodegradable Penetrating Oil and FMO-85AW are available 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Package part number -067.

(2) GEAR SHIELD EXTRA HEAVY is available in 10 1/2 OZ. / 297g caulk type cartridges, 40 to a case. Part No. L0152-000.



PRODUCT / PACKAGE AVG. NET WT. / CONTENTS PACKAGE PART NO. SUFFIX	PAIL 35 LB / 15.9 kg 5 GAL / 18.9 L	QTR DRUM 120 LB / 54 kg 16 GAL / 60.5 L	FULL DRUMS 420 LB / 191 kg 55 GAL / 208 L	SPACEKRAFT 2450 LB / 1111 kg 330 GAL / 1249 L	PASSPORT BIN 275 GAL / 1040 L	POLY JUMBO 1810 LB / 821 kg 250 GAL / 946 L	POLY JUMBO 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
Synthetic Fluids	-060	-061	-062	-070	-072	-059	-059	-059	-	-
Air Compressor Fluids / Oils	-060	-061	-062	-070	-072	-059	-059	-059	-	-
Hydraulic Fluids / Oils	-060	-061	-062	-070	-072	-059	-059	-059	-	-
*Greases	-035	-039	-040	-042	-072	-041	-041	-041	-041	-041
*Petroleum Based Gear Oils	-035	-039	-040	-042	-072	-041	-041	-041	-	-
*Specialty Greases	-035	-039	-040	-042	-072	-041	-041	-041	-041	-041
Specialty Oils / Fluids	-060	-061	-062	-070	-072	-059	-059	-059	-	-
Food Grade Fluids / Oils	-060	-061	-062	-070	-072	-059	-059	-059	-	-
*Food Grade Greases	-035	-039	-040	-042	-072	-041	-041	-041	-041	-041
Motor Oils / Trans. Fluids	-060	-	-062	-070	-072	-059	-059	-059	-	-
Metalworking Fluids / Oils	-060	-061	-062	-070	-072	-059	-059	-059	-	-
Package Specifications										
Aprox. Dimensions / Inches	12x15	15x27	23.5x35	48x48x51	-	42x48x50	42x48x63.5	42x48x86	45.5x53.5x76.5	45.5x53.5x88
Avg. Gross Shipping Weight	40 lbs/18.1 kg	134 lbs/60.8 kg	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	38 lbs/17.2 kg	134 lbs/60.8 kg	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

■ 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.

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

Part Numbers - Add the desired Perma Package Part Number Suffix listed on the chart to the end of the desired Lubriplate Product Part Number.



PERMA MODEL	VOLUME SIZE	OUTPUT RATE	PRESSURE BUILD-UP	FEATURES / DETAILS	PERMA PACKAGE PART NO. SUFFIX
CLASSIC	120 cc	1 Month (Activator Screw)	65 PSI	Metal Housing	-101
CLASSIC	120 cc	3 Month (Activator Screw)	65 PSI	Metal Housing	-103
CLASSIC	120 cc	6 Month (Activator Screw)	65 PSI	Metal Housing	-106
CLASSIC	120 cc	12 Month (Activator Screw)	65 PSI	Metal Housing	-112
FUTURA	120 cc	1 Month (Activator Screw)	65 PSI	Transparent Plastic Housing	-201
FUTURA	120 cc	3 Month (Activator Screw)	65 PSI	Transparent Plastic Housing	-203
FUTURA	120 cc	6 Month (Activator Screw)	65 PSI	Transparent Plastic Housing	-206
FUTURA	120 cc	12 Month (Activator Screw)	65 PSI	Transparent Plastic Housing	-212
FLEX	30 cc	1 to 12 Mo. Programmable (Dial Select)	73 PSI	Transparent Plastic Housing - Control Dial on Top	-229
FLEX	60 cc	1 to 12 Mo. Programmable (Dial Select)	73 PSI	Transparent Plastic Housing - Control Dial on Top	-230
FLEX	125 cc	1 to 12 Mo. Programmable (Dial Select)	73 PSI	Transparent Plastic Housing - Control Dial on Top	-231
NOVA	130 cc	Programmable Electronic (Push Button)	90 PSI	LCD Display, Integrated Temperature Compensation	-130
NOVA LC REFILL KIT	130 cc	-	-	Refill Kit - Includes Pre-Filled NOVA LC Unit	-131
STAR VARIO G2	60 cc	1, 3, 6, 12 Mo. Programmable	75 PSI	LCD Display, Push Button Settings, Battery Operated	-460
STAR VARIO G2	120 cc	1, 3, 6, 12 Mo. Programmable	75 PSI	LCD Display, Push Button Settings, Battery Operated	-412
STAR VARIO G2	250 cc	1, 3, 6, 12 Mo. Programmable	75 PSI	LCD Display, Push Button Settings, 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. Programmable	360 PSI	Battery Operated	-725
PRO	500 cc	1 Day to 24 Mo. Programmable	360 PSI	Battery Operated	-750
PRO MP-6	250 cc	1 Day to 24 Mo. Programmable	360 PSI	Battery Operated, 1-6 Lubrication Points	-726
PRO MP-6	500 cc	1 Day to 24 Mo. Programmable	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 PRODUCTS AVAILABLE IN PERMA LUBRICATORS

PETROLEUM-BASED GREASES	No. 176 Pt. No. L0054-, 630-AA Pt. No. L0067-, 630-AAA Pt. No. L0068-, 730-0 Pt. No. L0083-, 730-1 Pt. No. L0084-, 730-2 Pt. No. L0085-, 930-AA Pt. No. L0096-1200-2 Pt. No. L0102-, 1240 Pt. No. L0105-, 1241 Pt. No. L0104-, 1242 Pt. No. L0106-, 1444 Pt. No. L0227-, 1551 Pt. No. L0165-, 1552 Pt. No. L0166-3000 Pt. No. L0108-, EMB Pt. No. L0148-, HIGH TEMP Pt. No. L0161-, MAG-00 Pt. No. L0186-, MAG-1 Pt. No. L0189-, X-357 Pt. No. L0149-
SYNTHETIC GREASES	POLY HP-2 Pt. No. L0191-, SYN-1600 Pt. No. L0300-, SYN-1601 Pt. No. L0301-, SYN-1602 Pt. No. L0302-, SYN-3001 Pt. No. L0315-, SYN-EMB Pt. No. L0335-SYNXTREME HD-1 Pt. No. L0402-, SYNXTREME HD-2 Pt. No. L0401-, SYNXTREME HD-2/220 Pt. No. L0312-
OILS**	CHAIN & CABLE FLUID Pt. No. L0135-, CHAIN & CABLE HEAVY Pt. No. L0136-, SPO-222 Pt. No. L0242-, SPO-233 Pt. No. L0243-,
FOOD GRADE GREASES NSF H1	CLEARPLEX-2 Pt. No. L0351-, FGL-0 Pt. No. L0230-, FGL-1 Pt. No. L0231-, FGL-2 Pt. No. L0232-, FML-1 Pt. No. L0144-, FML-2 Pt. No. L0145-, PURETAC Pt. No. L0236-
SYNTHETIC FG GREASES NSF H1	SFL-00 Pt. No. L0195-, SFL-0 Pt. No. L0196-, SFL-1 Pt. No. L0197-, SYNXTREME FG-0 Pt. No. L0307-, SYNXTREME FG-1 Pt. No. L0306-, SYNXTREME FG-2 Pt. No. L0305-
FOOD GRADE OILS** NSF H1	FMO-85-AW Pt. No. L0880-, FMO-200-AW Pt. No. L0881-, FMO-350-AW Pt. No. L0882-
SYNTHETIC FG FLUIDS** NSF H1	SFGO ULTRA 32 Pt. No. L0915-, SFGO ULTRA 220 Pt. No. L0985-, SYN-H1-220 Pt. No. L0779-

**Lubriplate Oils and Fluids are not available in Perma PRO Series Lubricators.

District Managers and Specialists

Western Canada:

Robin Tetrault
Summit Agencies Ltd.
Suite 354
440-10816 Macleod Trail S.
Calgary Alberta T2J 5N8
403-236-8655
robin@summitagencies.ca

Peter Liston
Summit Agencies Ltd.
Suite 76 / 11215 Jasper Ave.
Edmonton, Alberta T5K 0L5
780-406-7462
peter@summitagencies.ca

Brian Weihs
Summit Agencies Ltd.
Suite 441 / 1641 Lonsdale Ave.
North Vancouver, BC V7M 2J5
604-329-7848 / brian@summitagencies.ca

Hawaii Inquiries:
Jim Girard - VP General Mgr.
Chief Marketing Officer:
800-733-4755 / JimG@lubriplate.com

Eastern Canada:

Mechanical Sales Co.
2199 Dunwin Dr.
Mississauga, ON L5L 1X2
800-263-7226

Lydia Oosterbaan
lydiao@mesaco.com
Quebec and the Maritimes

RJ (Richard) Seguin
rjs@mesaco.com
Southwestern Ontario

Gord Jopling
gordj@mesaco.com
Northern Ontario

Western Region:

District Managers:

Douglas J. Smith
1705 NW Viewmont Ct
Silverdale, WA 98383
360-488-3382
dsmith@lubriplate.com

Dan O'Brien
1359 East Skyview Drive
Salt Lake City, UT 84124
801-550-0383
dobrien@lubriplate.com

Francis Gondouin
216 El Prado
San Rafael, CA 94903
415-279-0609
fgondouin@lubriplate.com

Mike Wrocklage
25210 Butterwick Drive
Spring, TX 75089
713-725-1294
mwrocklage@lubriplate.com

Central Region:

District Managers:

Chris Qualizza
W197 N17141 Stonewall Dr.
Jackson, WI 53037
262-339-3659
cqualizza@lubriplate.com

Dennis E. King
20902 West 118th Terrace
Olathe, KS 66061
913-424-7404
913-839-8444 (Office & Fax)
dking@lubriplate.com

Don Wrocklage
2330 Winegarden Court
Ballwin, MO 63011
314-614-7488
636-458-7549 (Fax)
dwrocklage@lubriplate.com

Roger Thostenson
1329 Auburn Place
Plano, TX 75093
972-998-0344/972-403-3801 (Fax)
rthostenson@lubriplate.com

Chris Franzoni
21653 Kendyl Court
Macomb, MI 48044
586-530-6922
cfranzoni@lubriplate.com

Scott Besedick
1219 Elliston Court
Crown Point, IN 46307
219-689-2365
sbesedick@lubriplate.com

Kim Henricks
414 Winter Street
Elmore, OH 43416
419-261-2080
khenricks@lubriplate.com

Nick Guerrero
973-934-1929
nguerrero@lubriplate.com
Covered Areas: TN, MS,
Mexico & South America

Eastern Region:

District Managers:

Michael Barto
44 North Cope Hill Drive
Lititz, PA 17543
717-475-6694
717-665-0425 (Fax)
mbarto@lubriplate.com

David Reh
142 Andrew Street
Hamilton, NJ 08610
973-722-6098
dreh@lubriplate.com

Robert A. Reh Jr.
5312 Meadow Chase Rd.
Midlothian, VA 23112
864-270-8558
rrehjr@lubriplate.com

Jim Zappulla
176 Tobacco Street
Lebanon, CT 06249
860-303-1148
jzappulla@lubriplate.com

Lee Myers
PMB 290 / 3948 S. Third St.
Jacksonville Bch., FL 32250
973-722-6520
lmyers@lubriplate.com

Global Mining Specialist:

Bernie Meeks
(505) 320-1123 / bmeeks@lubriplate.com

Specialists:

Vice President & Gen Mgr.
International Inquiries:
Chief Marketing Officer:
Jim Girard - 800-733-4755
JimG@lubriplate.com

Sales & Technical Assistant
to Chief Marketing Officer:
Vera Tehayel - 973-589-9150
VeraT@lubriplate.com

Assistant Vice President
Domestic Sales & Service
Inquiries:
Tim Cusack - 800-733-4755
TimC@lubriplate.com

Domestic Sales Director
Toledo:
Mike Kontak - 419-691-2491
MikeK@lubriplate.com

Vice President, Sales:
Steve Morrow -
Office: 973-589-9150
Cell: 973-722-6516
SMorrow@lubriplate.com

Quality Manager:
Jacki Dusza -
419-691-2491
JackiD@lubriplate.com

Vice President - Toledo
Operation and Corporate
Director of Technology:
Sib Hamid - 419-691-2491
SHamid@lubriplate.com

National Accounts Rep:
Don Wrocklage -
314-614-7488
dwrocklage@lubriplate.com

OEM Marketing Analyst
and Government Agency
Liaison: Ellen Girard -
908-489-7355
EGirard@lubriplate.com

Director of Field Engineering
& Training Services:
David Reh - 973-722-6098
dreh@lubriplate.com

Lubriplate Lubricants Company

129 LOCKWOOD STREET / NEWARK, NJ 07105 / PHONE 800-733-4755 / FAX 800-347-5329
TOLEDO, OH OFFICE / PHONE 419-691-2491 / FAX 800-347-5348

