

Lubriplate® Lubricants

Advanced Lubricant Technology For All Industries.



High Performance Synthetic Fluids and Greases

Gear, Bearing & Recirculating Oils

Air Compressor and Vacuum Pump Oils

Hydraulic Oils

Multi-Purpose Greases

Greases For Special Applications

Specialty Lubricants

Food Machinery Lubricants NSF H-1 Class

Automotive Lubricants

Motor Oils

Metal Working Fluids

Spray Lubricants, Grease Cartridges and Tubes



LUBRIPLATE®
Lubrication Data Book

Contents

- 4 Super Multi-Purpose Synthetic Fluids
- 4 - 5 Multi-Purpose, Gear, Bearing & Recirculating Fluids
- 6 Air Compressor Fluids
- 7 Refrigeration Compressor Oils
Hydraulic Fluids
- 8 - 9 Multi-Purpose Greases
- 10 Greases For Special Conditions / Applications
Greases For Open Gearing
- 11 Specialty Lubricants and Greases
Specialty Oils and Fluids
- 12 - 15 Food Machinery Lubricants / NSF H-1
- 16 Automotive Lubricants
Motor Oils & Transmission Fluids
Metal Working Fluids
- 17 Multi Purpose Spray Lubricants
Lubricants In Plastic Tubes
Grease Cartridges
- 18 Packaging Containers
- 19 General Application Recommendations
OEM / Lubriplate Air Compressor Fluid Crossover Recommendations
- 20 Lubricant Classification Comparisons
Regional / District Managers and Specialists



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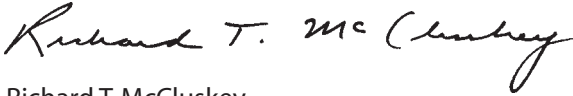
Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 135 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



Toll Free Technical Support Hotline

Call our technical service center toll free at 800-347-5343 or 800-733-4755 for answers to your lubrication questions by phone, or contact your nearest Lubriplate district manager (see page 12 for listing) or your local distributor representative for complete technical support.



Complete Plant Surveys and Lubricant Inventory Consolidation

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



Customized, Color Coded, Lubricant Specification, Machinery Tags

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



Lubrication Maintenance Software

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



No-Charge Oil / Fluid and Grease Analysis

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



In Plant User Lubrication Training and Distributor Training

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

Super Multi-Purpose Synthetic Fluids

For Air Compressors, Hydraulic Systems, Recirculating Systems, Bearings, Chains, and Gearboxes.

Syn-Lube Series: Polyalphaolefin (PAO)-Based Synthetic 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. Syn-Lube 22, 32, 46, 68 & 100 are recommended for many types of rotary screw and piston type air compressors, hydraulic systems, blowers, and turbine oil applications. Syn-Lube 150, 220, 320, 460, & 680 are recommended for gearboxes, bearings, chains and recirculating systems.



LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C
SYN LUBE 150	L0974-	150	40	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-	-60°F / -51°C
SYN LUBE 220	L0975-	220	50	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-	-55°F / -48°C
SYN LUBE 320	L0976-	320	60	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 460	L0977-	460	70	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 680	L0978-	680	-	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-	-45°F / -43°C

Syn Lube 22 through 100 is available in Pails & Drums, Syn Lube 150 through 680 is available in Jugs, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

Synthetic Multi-Purpose, Gear, Bearing & Recirculating Fluids

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

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

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

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

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

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



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

SYN High Temp 68 & 220 is available in Pails & Drums. See page 18 for more information and package part number suffix.

PGO Synthetic Gear Fluids: 100% Polyalkylene Glycol (PAG)-Based Fluids.

These 100% polyalkylene glycol fluids are designed to handle the most demanding operating conditions. These fluids deliver outstanding protection against micropitting, abrasion and wear. They deliver unsurpassed extreme pressure and anti-wear performance and provide outstanding thermal stability. They exceed 12 stages of the FZG test.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
PGO-220	L0838-	220	5	90	227 / 42	-	242	543°F / 284°C	-	-44°F / -42°C
PGO-460	L0839-	460	7	140	477 / 83	-	262	543°F / 284°C	-	-33°F / -36°C

PGO Synthetic Gear Fluids are available in Pails & Drums. See page 18 for more information and 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.

SPO series of petroleum based oils is specifically designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants will provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO Lubes 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. Meets the viscosity requirements of SAE 80W and SAE 140 gear oils.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	20W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	30	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	40	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	50	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	60	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	70	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	60	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 & Drums. See page 18 for package part number suffix.

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.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
APG-75	L0116-	32	-	75W	10W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	20	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	40	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	50	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	60	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	70	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 18 for package part number suffix.

CP-7 and CP-8A: Compounded (CP) Petroleum-Based Gear Oils.

This non-EP oil is manufactured with acidless tallow as required to meet AGMA specification 8A Comp. It is recommended for use in cone drives and double-enveloping worm gear drives.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
CP-7	L0139-	460	7 COMP	140	-	432 / 28	2300 / 145	95	505°F / 263°C	550°F / 288°C	10°F / -12°C
CP-8A	L0141-	1000	8A COMP	250	-	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C

CP-7 is available in Drums. CP-8A is available in Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

Machine Tool Oils: 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 VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
NO.0	L0000-	7-10	-	-	5W	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO.1	L0002-	22	-	-	10W	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO.2	L0003-	46	1	75W	20	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO.3V	L0009-	68	2	80W	20	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO.3	L0005-	100	3	80W	30	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO.4	L0011-	150	4	90	40	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO.8	L0014-	460	7	140	70	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 18 for package part number suffix.

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

These zinc-free, fluids are recommended for rotary screw and rotary vane air compressors as well as centrifugal air compressors striving for lower power consumption. They offer superior thermal and oxidation stability, outstanding water demulsibility, low pour points, very high viscosity indexes, superior heat transfer characteristics and excellent seal material compatibility. Fluid drain intervals are 4 - 6,000 hours under normal conditions.

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

Syn Lube 22 through 100 is available in Pails & Drums. See page 18 for package part number suffix.

Syncool Series: Polyglycolester-Based Synthetic Compressor Fluids.

These fluids are designed for rotary screw air compressors. They offer excellent heat transfer properties, low evaporation, high flash points, and outstanding oxidation resistance, eliminating varnish and sludge. Fluid change intervals are 6 - 8,000 hours under normal operating conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL 32	L0965-	32	10	30 / 6	165 / 34	156	485°F / 252°C	550°F / 288°C	-60°F / -51°C
SYNCOOL 46	L0966-	46	20	47 / 9	232 / 55	180	470°F / 243°C	555°F / 290°C	-50°F / -46°C

Syncool Series Fluids are available in Pails & Drums. See page 18 for more information and package part number suffix.

Synac Series: Diester-Based Synthetic Compressor Fluids

These diester-based fluids are outstanding for applications where the fluid is subjected to high temperature and high stress conditions over extended drain intervals. Call our technical service line at 800-347-5343 for fluid and seal compatibility data and conversion procedures.

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

Synac Series Fluids are available in Pails & Drums. See page 18 for more information and package part number suffix.

Petroleum-Based Air Compressor Fluids

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

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

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
AC-1	L0705-	46	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
AC-2	L0706-	68	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
AC-2A	L0707-	100	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°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	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C

AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, See page 18 for more information and package part number suffix.

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.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
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 18 for more information and the package part number suffix.

Refrigeration Compressor Oils

Refrigeration Compressor Oils: 68-N (Naphthenic) & 68-P (Semi-Synthetic):

These highly refined lubricants are 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. They are not recommended for use with HFC (hydrofluorocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oils 68N & 68P are available in Pails & Drums. See page 15 for more information and the package part number suffix.

Synthetic Hydraulic Fluids

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

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

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

Syn Lube 22 through 100 is available in Pails & Drums. See page 18 for package part number suffix.

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. Excellent anti-rust, anti-corrosion, anti-foam and anti-oxidation properties. 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	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	-	-	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
HO-1	L0761-	46	1	75	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
HO-2	L0762-	68	2	80	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
HO-2A	L0763-	100	3	80	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
HO-3	L0764-	150	4	85	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / 23°C
HO-4	L0765-	150	5	90	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C
HO-5	L0766-	320	6	90	60	281 / 22	1510 / 111	96	480°F / 249°C	565°F / 296°C	10°F / -12°C

HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 18 for more information and the package part number suffix.

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

LOW TEMPERATURE HYDRAULIC OILS: 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	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @ 40°C / 100°C	VIS. SUS @ 100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	-	75	5W-20	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	-	75W	5W-20	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	-	75W	5W-20	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 18 for more information and the package part number suffix.

Multi-Purpose Synthetic Greases

SYNXTREME HD-Series:

Extreme-Duty, High-Temperature, Synthetic, Calcium Sulfonate Complex Greases.

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



LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYNX HD-0	L0403-	0	100 / 500	355 / 385	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Centralized greasing systems.
SYNX HD-1	L0402-	1	100 / 500	310 / 340	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Multi-purpose, industrial applications.
SYNX HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Heavy-duty general-purpose grease.

SYNXTREME HD-Series greases are available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

SYN-1600 Series:

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

These greases are manufactured with 100% polyalphaolefin (PAO) base fluids and thickened with lithium-complex, 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.



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

SYN-1600 Series Greases are available in Pails, 1/4 Drums & Drums, SYN-1601 & SYN-1602 are also available in Cartridges. See page 18 for package part number suffix.

Multi-Purpose, Petroleum-Based 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. No. 1552 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1500	L0163-	00	200 / 1100	400 / 430	-	-10°F / -23°C	AW/EP	YES	YES	Leaky Gear Cases. Trailer wheel bearings.
1550	L0164-	0	200 / 1100	355 / 385	450°F / 232°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
1551	L0165-	1	200 / 1100	310 / 340	470°F / 243°C	-5°F / -21°C	AW/EP	YES	YES	Ind./const./mining equip.
1552	L0166-	2	200 / 1100	265 / 295	>500°F / 260°C	0°F / -18°C	AW/EP	YES	YES	Ind./const./mining equip., adverse conditions.

1500 Series Greases are available in Pails, 1/4 Drums & Drums, No. 1551 & No. 1552 are also available in Cartridges. See page 18 for package part number suffix.

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.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1200-2	L0102-	2	183 / 950	265 / 295	400°F / 204°C	-25°F / -32°C	AW/EP	YES	YES	General-purpose grease.

1200-2 is available in Cartridges, Cans, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

Multi-Purpose, Petroleum-Based Greases

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.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1240	L0105-	0	237 / 1250	355 / 385	400°F / 204°C	0°F / -18°C	AW/EP	YES	YES	Centralized systems/const./ind. equip.
1241	L0104-	1	237 / 1250	310 / 340	400°F / 204°C	5°F / -15°C	AW/EP	YES	YES	Centralized or hand greasing.
1242	L0106-	2	237 / 1250	265 / 295	425°F / 218°C	15°F / -9°C	AW/EP	YES	YES	Heavy-duty construction equipment.

1240 Series Greases are available in Cartridges, Cans, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

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. NLGI GC-LB certified.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1444	L0227-	2	626 / 3300	265 / 295	500°F / 260°C	10°F / -12°C	AW/EP	YES	YES	Heavy-duty construction, mining equip.

No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

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. Meets Caterpillar's specifications for molybdenum disulfide content. 3000-W is for cold ambient temperatures.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
3000	L0108-	2	237 / 1250	265 / 295	450°F / 232°C	0°F / -18°C	AW/EP	YES	YES	Heavy-duty/construction/mining equip.
3000-W	L0107-	1	60 / 315	310 / 340	375°F / 191°C	-30°F / -34°C	AW/EP	YES	YES	Heavy-duty equip./cold weather conditions.

3000 Series Greases are available in Cartridges, Cans, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

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. 730-2 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
730-0	L0083-	0	151 / 800	355 / 385	465°F / 241°C	-10°F / -23°C	AW/EP	YES	YES	Centralized systems adverse conditions.
730-1	L0084-	1	151 / 800	310 / 340	540°F / 282°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.
730-2	L0085-	2	151 / 800	265 / 295	560°F / 293°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.

730 Series Greases are available in Cans, Pails, 1/4 Drums & Drums, No. 730-2 is also available in Cartridges. See page 18 for package part number suffix.

630 Series: Multi-purpose Lithium-Based Greases.

Available in 4 N.L.G.I. Densities. No. 630-AAA for automatic greasing systems on can closing equipment.

930 Series: Multi-Purpose Bentone-Based Greases.

Available in 4 N.L.G.I. Densities. No. 930-AAA for all types of automatic greasing systems.

100 & 130 Series: Calcium Type Greases.

These calcium-based greases are still available in 5 NLGI densities. They are designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F / 77°C.



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

These multi-purpose greases have a wide operating temperature range for variety of applications from -60°F / -51°C up to 300°F / 149°C.

Aero: Lithium Based, 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.

No. 5555: Anhydrous Calcium, Semi-Fluid Type Lubricant.

This semi-fluid type lubricant is made for automatic lubricating systems operating in cold environments.

EMB: Lithium Polymer Type, High Speed Electric Motor Bearing Grease.

Developed specifically for the lubrication of electric motor bearings, fans and other high speed grease type ball and roller bearings.

Poly HP-2: Polyurea-Thickened Type Grease.

Formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
HIGH TEMP	L0161-	2	497 / 2600	265 / 295	NON-MELT	10°F / -12°C	AW	YES	YES	Multi-Purpose, high temp. applications
LOW TEMP	L0172-	1.5	16 / 90	290 / 320	280°F / 138°C	-60°F / -51°C	AW	YES	YES	Cold temps., multi-purpose, fifth wheels.
MAG-1	L0189-	1	23 / 120	310/340	375°F / 191°C	-60°F / -51°C	AW/EP	YES	YES	Cold & wide temp. range, multi-purpose.
MAG-00	L0186-	00	23 / 120	SEMI-FLUID	340°F / 171°C	-60°F / -51°C	AW/EP	YES	YES	Centralized systems, leaking gearboxes.
AERO	L0113-	1	19 / 100	310 / 340	350°F / 177°C	-60°F / -51°C	AW	YES	YES	Cold temps., trailer landing gears, garages.
5555	L0109-	000	16 / 90	SEMI-FLUID	315°F / 157°C	-60°F / -51°C	AW	YES	YES	Automatic lube systems, light oil, cold temps.
EMB	L0148-	2	100 / 500	265 / 295	390°F / 199°C	-20°F / -29°C	AW/EP	YES	YES	Electric motor bearings, fans, air handlers.
Poly HP-2	L0191-	2	128/650	265 / 295	500°F / 260°C	-	AW	YES	YES	Electric motor bearings.

HIGH TEMP, MAG-1 and Poly HP-2 are available in Cartidges, Cans, Pails, 1/4 Drums & Drums.

LOW TEMP is available in Tubes, Cartidges, Cans, Pails, 1/4 Drums & Drums.

AERO is available in Mini Tubes, Small Tubes, Cans, Pails, 1/4 Drums, & Drums.

MAG-00 and No. 5555 are available in Bottles, Jugs, Pails, 1/4 Drums & Drums.

See page 18 for package part number suffix.

Greases For Open Gearing

Gear Shield Series: Multi-Purpose Open Gear Greases.

Available in 4 N.L.G.I. Densities. Gear Shield Extra Heavy for thick, tacky and adhesive open gear and fifth wheel greasing.

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.	NLGI GRADE	OIL VIS. cSt / SUS @ 40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
No. 176	L0054-	00	313 / 1650	400 / 430	NON-MELT	5°F / -15°C	AW/EP	YES	YES	Open gears lubricated centralized systems.

No. 176 is available in Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

Specialty Lubricants and Greases

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-. See page 18 for packaging information.

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 18 for packaging information.

NO. 105 Motor Assembly Grease: A smooth, light bodied, grease that is applied to engine bearings, cylinder walls and other moving internal engine parts. Provides lubrication and protects parts from scuffing and scoring during initial start up before the motor oil circulates. Prevents rust on newly machined engine parts. Will not clog filters or oil lines. Product Part No. L0034-. See page 18 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 18 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-. See page 18 for packaging information.

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.

Specialty Oils and Fluids

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-.

Jack Oil: A heavy-duty, high pressure hydraulic oil, anti-wear and anti-corrosion additives. Product Part No. L0768-.

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-.

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 18 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-. See page 18 for packaging information and package part number suffix.

Syn Flush: 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-.

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-, 68, Part No. L0751-, and 150 Part No. L0750-. Available in Pails & Drums. See page 18 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.

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-.

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-.

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-. See page 18 for packaging information.



Lubriplate Food Machinery Lubricants / Class H-1*

Lubriplate's complete line of NSF H-1 Registered, Food Machinery Lubricants is designed to provide total food processing and bottling plant lubrication capability. Formulated from high quality base stocks combined with unique premium, anti-wear additives, these lubricants exceed many performance specifications of conventional H-2 lubricants.

All Lubriplate H-1 Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact. They meet USDA H-1 safety standards and are authorized for use in federally inspected meat and poultry plants. Their use eliminates lubrication as a critical control point in your HACCP program.



F.D.A. Codes (CFR) which affect lubricants for machinery with incidental food contact.

21.CFR 178-3570	Ingredients used to manufacture H-1 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 H-1 range are formulated with USP White Mineral Oil which is both the purest and highest quality base oil any manufacturer can use to formulate H-1 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)

Synthetic Food Machinery Grade Greases / Class H-1*



SYNXTREME FG-Series:

Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Greases.

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



Also available in Pails, 1/4 Drums & Drums,

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

SYNXTREME FG-Series Greases are available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for 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.



Also available in Pails, 1/4 Drums & Drums,

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

SFL Series Greases are available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

SFGO Ultra Series:

Polyalphaolefin (PAO)-Based, High-Performance Fluids.

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 which experience very demanding conditions. SFGO Ultra 220 and 460 pass 12 stages of the FZG Test.



LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 93°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 18 for package part number suffix.

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

The original SFGO fluids, 100 through 1500 are still available for less stressful applications which require only a PAO/Polymer combination fluid.

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

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

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SSO-FG 100	L0956-	100	3	85	40	105 / 16	556 / 77	156	515°F / 268°C	560°F / 293°C	-65°F / -51°C
SSO-FG	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 Fluids are available in Drums. See page 18 for package part number suffix.

RCO-68: Polyalphaolefin (PAO)-Based, Food Machinery Grade, Refrigeration Compressor Fluid.

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

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

RCO-68 Fluid is available in Pails & Drums. See page 18 for package part number suffix.

SynFlush FG: Synthetic, Food Machinery Grade, Cleaning and Flushing Fluid.

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

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

SynFlush FG is available in Quart Bottles, Pails & Drums. See page 18 for package part number suffix.

*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

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

For use where a Class H-1 oil is required. Manufactured in nine ISO grades for a variety of applications. Anti-wear fortified. NOTE: FMO-350AW is also available in a red and orange color which helps in leak detection. FMO-1100AW and FMO-2400AW pass 12 stages of the FZG test. The original FMO Series products without the anti-wear additive system are still available.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	15-22	-	-	5W	19 / 4	103 / 40	112	335°F / 168°C	365°F / 185°C	-45°F / -43°C
FMO-150 AW	L0879-	32	-	-	10W	32 / 5	162 / 43	71	370°F / 188°C	415°F / 213°C	-30°F / -34°C
FMO-200 AW	L0881-	46	1	75	10	41 / 6	208 / 48	111	375°F / 191°C	405°F / 207°C	-25°F / -32°C
FMO-350 AW	L0882-	68	2	80	20	68 / 8	348 / 56	103	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	99 / 11	523 / 66	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
FMO-900 AW	L0884-	150	4	90	40	160 / 15	856 / 83	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
FMO-1100 AW	L0886-	220	5	90	50	210 / 19	1126 / 97	100	440°F / 227°C	510°F / 266°C	5°F / -15°C
FMO-1700 AW	L0887-	320	6	140	60	324 / 25	1730 / 120	95	430°F / 221°C	505°F / 263°C	5°F / -15°C
FMO-2400 AW	L0885-	460	7	140	70	456 / 30	2350 / 142	93	425°F / 218°C	505°F / 263°C	10°F / -12°C
FMO-3800 AW	L0888-	680	8	250	-	690 / 40	3864 / 198	96	420°F / 216°C	485°F / 252°C	15°F / -9°C

FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, See page 18 for more information and package part number suffix.

Food Grade Cooker Oil: This zinc free 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 similar applications involving high temperature and high humidity conditions. Unique additives provide high load-carrying ability and corrosion protection.

STO-FG Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-1.

PM 500 White Oil: This oil contains emulsifying agents that wet the lubricated surfaces and provide an oily film for the moving parts. Used very successfully on pear machines.

FP-150 & FP-150L: These clear, tacky, adhesive Class H-1 oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Pure Flush: This 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. Class H-1.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
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
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
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
Pure Flush	L0816-	-	-	-	-	7 / 2	50 / 32	-	210°F / 99°C	220°F / 104°C	-35°F / -37°C

See page 18 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

Food Machinery Oils / Class H-2**

No. 72-C Oil: Class H-2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter.

No. 78 Cooker Oil: Class H-2** 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 H-2.**

AS-148 Oil: An ashless oil for bearings, gears and cams where high temps are encountered. For Manzel lubricators and Angelus Seamers.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C / 100°C	VIS. SUS @100°F / 210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
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
AS-148	L0715-	220	5	90	50	200 / 18	1041 / 91	97	470°F / 243°C	525°F / 274°C	10°F / -12°C

See page 18 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

**H-2 Class lubricants may be used as a lubricant or anti-rust agent on equipment in which there is no possibility of the lubricated part contacting the edible product.

FGL Series: High Performance, Multi-Purpose Food Grade Greases.

Designed to meet the demands of food and beverage industry plant engineers who want Class H-1 greases to totally replace H-2 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.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @ 40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FGL-00	L0226-	ALUMINUM COMPLEX	00	120 / 550	400 / 430	410°F / 210°C	-5°F / -21°C	AW	YES	YES
FGL-CC	L0229-	ALUMINIUM COMPLEX	0/00	120 / 550	370 / 410	450°F / 232°C	0°F / -18°C	AW	YES	YES
FGL-0	L0230-	ALUMINUM COMPLEX	0	120 / 550	355 / 385	435°F / 224°C	0°F / -18°C	AW	YES	YES
FGL-1	L0231-	ALUMINUM COMPLEX	1	120 / 550	310 / 340	460°F / 238°C	0°F / -18°C	AW	YES	YES
FGL-2	L0232-	ALUMINUM COMPLEX	2	160 / 850	265 / 295	515°F / 268°C	10°F / -12°C	AW	YES	YES

FGL Series greases are available in Cans, Pails, 1/4 Drums & Drums, FGL-1 & FGL-2 are available in Cartridges. See page 18 for more information and package part number suffix.

PURE TAC: Tacky, Adhesive Food Grade Grease.

This tacky, adhesive, highly water resistant, Class H-1 grease is 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.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @ 40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
PURE TAC	L0236-	ALUMINIUM COMPLEX	2	1187 / 6500	265 / 295	520°F / 271°C	25°F / -4°C	AW	YES	YES

PURE TAC is available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for more information and package part number suffix.

CLEARPLEX-2: Clear, Multi-Purpose Food Grade Grease.

This Aluminum Complex thickened, H-1 class grease is engineered for use in plain and anti-friction bearings in the food-processing and beverage processing industry. Contains non zinc-oxide anti-wear additive.

LUBRIPLATE PRODUCT	PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @ 40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
CLEARPLEX-2	L0351-	ALUMINIUM COMPLEX	2	104 / 500	265 / 295	450°F / 232°C	10°F / -12°C	AW	YES	YES

CLEARPLEX-2 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 18 for more information and package part number suffix.

FML Series: Multi-Purpose, Food Grade Greases.

These white, anhydrous calcium-based, multi-purpose greases are still available. They have been popular in the food processing industry for years. Available in three NLGI densities for a wide variety of applications.

Food Grade Spray Lubricants / Class H-1*

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

Super FML-2 Spray: A Class H-1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H-1 lubricant is required. Part No. L0145-063.

FMO-350-AW Spray: A Class H-1 food machinery oil, in easy to apply spray can. For use where a Class H-1 oil is required. Part No. L0882-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic fluid lubricant, for use on bottling, dairy and food processing machinery. For chains, slides 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, O-rings, rubber seals and general lubrication. Part No. L0723-063.

FMO-85-AW Spray: A multi-purpose Class H-1 oil. Packed in 14 OZ. / 414 ml hand pump, non-aerosol spray bottle. Part No. L0880-067.



*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

Automotive Lubricants

No. 105 Motor Assembly Grease: A smooth light-bodied grease made especially for motor assembly. Prevents "Dry Start." Provides lubrication during initial start up before the motor oil has circulated. Protects freshly machined engine parts from rust and corrosion. Part No. L0034-094.

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. Also excellent for motor assembly. Part No. L0034-086.

Wheel Bearing Grease: A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. N.L.G.I. GC-LB certified. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 18 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. 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 & 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 CG-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. L0753-.

Super HDS Motor Oil: Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. For service SJ / CF. MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 20-20W, 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-.

2 Cycle Motor Oil: For air cooled, 2 cycle engines on motor cycles, lawn equipment, chain saws, snowmobiles and outboards. Pt. No. L0826-.

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-.



Metal Working Fluids

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-. See page 18 for packaging information and package part number suffix.

No. 405 Dark Cutting Oil: 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. F0587-. See page 18 for packaging information.

Flokool 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. F0530-. See page 18 for packaging information.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. Part No. F0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. 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-. See page 18 for packaging information.

Metal Working Fluid: A specially developed product for metal working operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063. See page 18 for packaging information.

Multi Purpose Spray Lubricants

Chain & Cable Fluid: Superior penetrating oil. A cleansing non-gumming oil. Lubricates wire rope, chains, cables, any moving metal surfaces. Prevents rust and corrosion. Protects brightwork, loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. Packed in 12 OZ. / 340 g. spray can. Part No. L0135-063.

Spray Lube "A": A multi-pupose, 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. 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 Lubricant: A special 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. Outstanding moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. Packed in 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.

Food Machinery Grade Spray Lubricants: See page 15 for information on these lubricants.



Lubricants In Plastic Tubes

Lubriplate Lubricants in Tubes provide quick, clean, convenient lubrication with reduced waste and grease contamination.

The following products are available in 10 OZ. / 284 g plastic tubes, 36 to a case. Package Part No. Suffix -092. **No. 105 Gear Lube, 130-AA, 630-AA, LOW-TEMP, and APG 90 GEAR OIL** and **No. 105 Motor Assembly Grease** Part No. L0034-094.

The following products are available in 1 3/4 OZ. / 50 g tubes, 36 to a case. Part No. Suffix -086. **No. 105, 130-AA, 630-AA, 930-AA, AERO** and **DS-ES**.

The following products are available in 3/8 OZ. / 10.6 g plastic tubes, 288 to a case. Package Part No. Suffix -076. **No. 105, 630-AA** and **AERO**.



Grease Cartridges

Lubriplate Grease Cartridges provide quick, clean, convenient, "on site" lubrication with reduced waste and grease contamination. The following products are available in 14 1/2 OZ. / 411g cartridges, 40 to a case. Package Part No. Suffix -098.

SYNXTREME HD-1, SYNXTREME HD-2, SYN-1601, SYN-1602, No. 630-2, 730-2, 930-AA, 930-2, 1200-2, 1241, 1242, 1444, 1551,1552, 3000, 3000-W, HIGH TEMP, LOW TEMP, MO-LITH NO. 2, MAG 1, EMB, SYNXTREME FG-1, SYNXTREME FG-2, SFL-1, SFL-2, FGL-1, FGL-2, FML-2, PURE TAC, CLEARPLEX-2 and **SPECIAL AUTO-MARINE GREASE**.

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



Packaging Containers

Lubriplate's complete line of lubricants is available in a wide variety of packages. The chart below indicates product packaging availability. Add the package part number suffix to the product part number. Not all products are available in every package size.



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	-	-
*Gear, Bearing & Recirc. 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	-
Metal Working Fluids	-	-	-	-063	-	-	-	-	-057
Package Specifications									
Case Quantity	288	36	36	12	40	24	6	12	4
Aprox. Dimensions / Inches	10.25 x 9 x 8	6 x 6 x 7	13 x 12.5 x 11.5	11 x 8.5 x 8	19.5 x 11.5 x 10.5	14 x 10.5 x 8	20 x 13.5 x 7.5	13 x 9.5 x 9	14.5 x 10 x 10.5
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 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.

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



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 BIN 2450 LB / 1111 kg 330 GAL / 208 L	POLY JUMBO BIN 1810 LB / 821 kg 250 GAL / 1249 L	POLY JUMBO BIN 2520 LB / 1143 kg 350 GAL / 1325 L	POLY JUMBO 3980 LB / 1805 kg 550 GAL / 2082 L	VISCO DRUM 2800 LB / 1270 kg 379 GAL / 1435 L	VISCO DRUM 3800 LB / 1724 kg 500 GAL / 1893 L
Synthetic Fluids	-060	-061	-062	-070	-059	-059	-059	-	-
Air Compressor Fluids / Oils	-060	-061	-062	-070	-059	-059	-059	-	-
Hydraulic Oils	-060	-061	-062	-070	-059	-059	-059	-	-
*Greases	-035	-039	-040	-042	-041	-041	-041	-041	-041
*Gear, Bearing & Recirc. Oils	-035	-039	-040	-042	-041	-041	-041	-	-
*Specialty Greases	-035	-039	-040	-042	-041	-041	-041	-041	-041
Specialty Oils & Fluids	-060	-061	-062	-070	-059	-059	-059	-	-
Food Grade Fluids / Oils	-060	-061	-062	-070	-059	-059	-059	-	-
*Food Grade Greases	-035	-039	-040	-042	-041	-041	-041	-041	-041
Motor Oils / Trans. Fluids	-060	-	-062	-070	-059	-059	-059	-	-
Metal Working Fluids	-060	-061	-062	-070	-059	-059	-059	-	-
Package Specifications									
Aprox. Dimensions / Inches	12 x 15	15 x 27	23.5 x 35	48 x 48 x 51	42 x 48 x 50	42 x 48 x 63.5	42 x 48 x 86	45.5 x 53.5 x 76.5	45.5 x 53.5 x 88
Avg. Gross Shipping Weight	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

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

General Application Recommendations

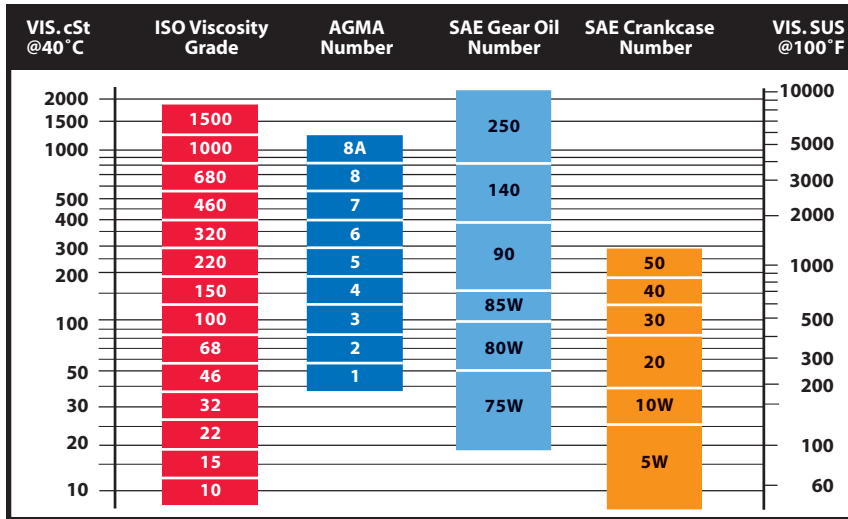
The multitude of industrial machinery and construction equipment on the market today makes specific applications impossible to list here. It is best to refer to the OEM service manuals of the machinery for specific lubrication recommendations. Listed below are a few lubricants that will cover most general requirements. For additional information, contact your local Lubriplate Distributor, Lubriplate District Manager or call (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYNXTREME HD-2	MAG-1 / SYN-1601	FGL-1 / FGL-2 / SYNXTREME FG-2
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100	FMO-350AW / SFGO ULTRA-68
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYNXTREME HD-0	MAG-00 / 1550	FGL-0 / FGL-00 / SYNXTREME FG-0
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68	FMO-350AW-500AW / SFGO ULTRA 68
GEARBOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150	FMO-1100AW / SFGO ULTRA 220
GEARBOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320	FMO-3800AW / SFGO ULTRA 680
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD	PURE TAC
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SYN-LUBE-22	FMO-350AW / SFGO ULTRA 68
AIR COMPRESSORS (RECIPROCATING)	SYN-LUBE-68	SYN-LUBE-100	SYN-LUBE-32	SFGO ULTRA-68 or 100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32	SFGO ULTRA-46 or 68
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	No. 1 / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYN-1602	1552 / POLY HP-2 / SYNXTREME HD-1	MAG-1 / GR-132 / SYN-1601	FGL-1 / SYNXTREME FG-1
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100	FMO-500AW / SFGO ULTRA 100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYNXTREME HD-2	MAG-1 / SYN-1601	FGL-2 / SYNXTREME FG-2
WHEEL BEARINGS (GREASE)	1552 / SYNXTREME HD-2	1552 / SYNXTREME HD-2	1552 / SYNXTREME HD-2	FGL-2 / SYNXTREME FG-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYNXTREME HD-2	MAG-1 / SYN-1601	FGL-2 / SYNXTREME FG-2
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	SPO-288	Chain & Cable Fluid	FMO-350AW / SFGO ULTRA-7
RUST / CORROSION PREVENTION	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA-7
ENGINE REBUILDING	105	105	105	-
MOLY GREASE (MOS ₂)	3000	3000	3000W	-
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68

OEM / Lubriplate Air Compressor Fluid Crossover Recommendations

ATLAS-COPCO	LUBRIPLATE	KAESER	LUBRIPLATE	GARDNER DENVER	LUBRIPLATE
GA-8K	Syn Lube 46	Sigma 8000 S-320	Syn Lube 32	AEON 9000	Syn Lube 32
HD Roto Fluid Plus	Syn Lube 46	Sigma 8000 S-460	Syn Lube 46	AEON 9000 SP	Syn Lube 46
HD Roto Fluid <small>(Hydro Treated Petroleum)</small>	Syn Lube 46	Sigma 8000 S-680	Syn Lube 68	9000	Syn Lube 68
Roto Injection Fluid	AC-1	Sigma 4000 M-460 <small>(Semi-Synthetic)</small>	AC-1 or Syn Lube 46	AEON PD	Syn Lube 220
GA-4K	AC-1	Sigma 4000 M-100 <small>(Semi-Synthetic)</small>	AC-2A or Syn Lube 100	GD-500-10W	AC-0
GA-OK	Synac 32	Sigma 4000 M-150 <small>(Semi-Synthetic)</small>	AC-3 or Syn Lube 150	AEON 2000	AC-0
GA-FG	SFGO Ultra 32*	325 R	Synac 32	AEON 800	AC-1
COMPAIR	LUBRIPLATE	466 R	Synac 46	AEON 4000	AC-1
Hydrovane 2000	Synac 100	687 R	Synac 68	GD-500-20W	AC-2
CN 300	Synac 100	Sigma 8000 S-100	Synac 100	AEON 500	AC-2
CS 100	Synac 32	Sigma 8000 S-150	Synac 150	GD-500-30	AC-2A
CS 5000 XL	Synac 46	150P	AC-2A	COMP CLEAN II	Synflush
CS 500 XL	Synac 46	175 P	AC-3	AEON 8000	Synac 68
CS 200	Synac 68	Sigma 8000 FG	SFGO Ultra 46*	AEON 5000	Synac 100
CS 300	Synac 100	LEROI	LUBRIPLATE	GD 5000	Synac 100
CS 400	Synac 150	SSL-46	Syn Lube 46	GD 5000-30	Synac 100
CSX 20	SFGO Ultra 46*	SSL-46 Plus	Syn Lube 46	AEON 6000 FG	SFGO Ultra 32*
INGERSOLL-RAND	LUBRIPLATE	SSL-32	AC-0	PALATEK	LUBRIPLATE
XHP-505	SynLube 68	SSL-38	AC-1	Palasyn 45	Syn Lube 46
XL-T-30	Synlube 100	SSL-50 <small>(Semi-Synthetic)</small>	AC-1 or Syn Lube 46	Pallube 32	Syncool 32
SL-200 <small>(for oil free)</small>	AC-1	SSL-CN SAE 30	AC-2	SULLAIR	LUBRIPLATE
SSR Ultra Coolant	Syncool 46	SSL-46 FG	SFGO Ultra 46*	LLL-4-32	Syn Lube 32
Orig SSR Coolant	Synac 68	Cleaner	Synflush	LLL-4-46	Syn Lube 46
XL-700	Synac 100	QUINCY	LUBRIPLATE	LLL-4-100	Syn Lube 100
XL-740 HT	Synac 150	Quincy PG Ester 46	Syncool 46	LLL-4-150	Syn Lube 150
T-30 Select	Synac 150	Quin Syn	Syn Lube 46	SRF-1/4000	AC-1
SSR H-1 F	SFGO Ultra 32*	Quin Syn Plus	Syn Lube 46	Sullube 32	Syncool 32
FG Coolant	SFGO Ultra 46*	Quin Syn FG	SFGO Ultra 46*	Sullair AW F 32	AC-0
		Quin Syn Flushing Oil	Synflush		

Oil Viscosity Classification Comparisons



NLGI Grease Classifications

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

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