Advanced Lubricants For All Industries

- 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

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

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To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

For 150 years, our company has strived to manufacture and deliver only the finest lubricant products possible. Our dedication to customer-driven manufacturing, coupled with the support of experienced technical and sales teams, provides the ability to deliver on that promise. Our company’s ISO-9001 registered Quality Management System and its ISO 21469 certification – both of which ensure a maximum commitment to the formulation, manufacture, packaging, distribution and storage of NSF H1 registered food grade lubricants – reinforce our promise to deliver lubricants exhibiting only the highest quality and performance.

We thank you for your interest in our products and look forward to earning and maintaining your trust.

Sincerely,

Richard T. McCluskey, Jr.
President and CEO

E-mail: rmccluskey@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 outstanding thermal stability, excellent extreme pressure and anti-wear performance and protection against micropitting. They exceed 13 stages of the FZG Test.

**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.

**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, 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.
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.


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.


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 post-friction applications. This series meets military specification MIL-PRF-2105E and conforms to API classification GL-5.

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

Compounded with acidless lard 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.

<table>
<thead>
<tr>
<th>LUBRIPASTE PRODUCT</th>
<th>PRODUCT NO.</th>
<th>ISO GRADE</th>
<th>AGMA NO.</th>
<th>SAE GEAR OIL NO.</th>
<th>VISCOSITY @ 40˚C/100˚C</th>
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<td>68</td>
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<td>1044 / 95</td>
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<td>5100 / 245</td>
<td>99</td>
<td>450°F / 232°C</td>
<td>505°F / 263°C</td>
<td>10°F / -12°C</td>
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</tbody>
</table>

*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.

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

Composed with acidless lard 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 |
|-------------------------------------------------|----------------|-------------|---------------|------------------|-----------------|---------------|
| **PRODUCT** | **PART NO.** | **ISO GRADE** | **AGMA NO.** | **SAE GEAR OIL NO.** | **VISCOSITY SUS @ 40˚C/100˚C** | **VISCOSITY SUS @ 100˚F/210˚F** | **VISCOSITY INDEX** | **FLASH POINT** | **FIRE POINT** | **POUR POINT** |
| 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, 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.

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<th><strong>ISO GRADE</strong></th>
<th><strong>AGMA NO.</strong></th>
<th><strong>SAE GEAR OIL NO.</strong></th>
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<th><strong>VISCOSITY SUS @ 100˚F/210˚F</strong></th>
<th><strong>VISCOSITY INDEX</strong></th>
<th><strong>FLASH POINT</strong></th>
<th><strong>FIRE POINT</strong></th>
<th><strong>POUR POINT</strong></th>
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<td>435°F / 224°C</td>
<td>515°F / 268°C</td>
<td>0°F / -18°C</td>
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</table>
**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:** Polyol Ester-Based, 100% Synthetic Compressor Fluids.

These state-of-the-art, polyol ester 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 8,000 and environmental issues are a concern. Readily biodegradable (Meets OECD criteria)

**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 Grade, 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.

**SFGO Ultra 22 - 100:** NSF H1 Registered Food Machinery Grade, 100% Synthetic H1 Fluids.

Manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact, these 100% synthetic H1 fluids are recommended for oil-flooded rotary screw, rotary vane and reciprocating air compressors operating in food processing and bottling plants. They are also recommended for centrifugal air compressors striving for lower power consumption. They offer superior thermal and oxidation stability, enhanced hydrolytic stability and excellent wear and corrosion protection. Potential for fluid drain intervals of +10,000 hours.

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**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  | L0968-022 | 22 | 5W | 23 / 5 | 129 / 44 | 138 | 420˚F / 216˚C | 470˚F / 243˚C | -70˚F / -57˚C
SYN LUBE 32  | L0970-032 | 32 | 10 | 32 / 6 | 160 / 47 | 136 | 470˚F / 243˚C | 505˚F / 263˚C | -70˚F / -57˚C
SYN LUBE 68  | L0971-068 | 68 | 20 | 44 / 8 | 223 / 52 | 138 | 485˚F / 250˚C | 550˚F / 288˚C | -65˚F / -54˚C
SYN LUBE 100 | L0973-100 | 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 more information and package part number suffix.

**SYNXTREME AC 32**  | L093932 | 32 | 10 | 32 / 6 | 125 | 525˚F / 274˚C | - | -51˚F / -46˚C
**SYNXTREME AC 46**  | L094046 | 46 | 20 | 46 / 7 | - | 117 | 527˚F / 275˚C | - | -40˚F / -40˚C
**SYNXTREME AC 68**  | L094168 | 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**  | L093232 | 32 | 10 | 31 / 6 | 155 / 46 | 135 | 450˚F / 232˚C | 530˚F / 277˚C | -45˚F / -43˚C
**SYNAC 46**  | L093346 | 46 | 20 | 44 / 7 | 213 / 49 | 118 | 455˚F / 235˚C | 535˚F / 279˚C | -35˚F / -37˚C
**SYNAC 68**  | L093468 | 68 | 20 | 64 / 8 | 311 / 53 | 98 | 455˚F / 235˚C | 535˚F / 279˚C | -20˚F / -29˚C
**SYNAC 100** | L0935100 | 100 | 30 | 100 / 10 | 510 / 60 | 76 | 450˚F / 232˚C | 530˚F / 277˚C | -15˚F / -26˚C
**SYNAC 150** | L0936150 | 150 | 40 | 147 / 13 | 754 / 71 | 71 | 540˚F / 282˚C | 570˚F / 299˚C | -25˚F / -32˚C
**SYNAC 220** | L0937220 | - | 201 / 16 | 1003 / 83 | 74 | 545˚F / 285˚C | 575˚F / 302˚C | -29˚F / -29˚C
**SYNAC 320** | L0938320 | - | 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**  | L0964426 | 42 | 6 | 41 / 8 | 172 | 530˚F / 277˚C | 595˚F / 313˚C | -40˚F / -40˚C
**SYNCOOL FG**  | L0963426 | 42 | 6 | 41 / 10 | 178 | 530˚F / 277˚C | 595˚F / 313˚C | -45˚F / -43˚C

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

**SFGO Ultra 22**  | L093122 | 22 | 5W | 20 / 4 | 106 / 41 | 128 | 405˚F / 207˚C | 430˚F / 221˚C | -65˚F / -54˚C
**SFGO Ultra 32**  | L091532 | 32 | 10 | 30 / 6 | 160 / 46 | 135 | 475˚F / 246˚C | 515˚F / 268˚C | -58˚F / -50˚C
**SFGO Ultra 46**  | L091646 | 46 | 20 | 50 / 8 | 220 / 52 | 134 | 480˚F / 249˚C | 520˚F / 271˚C | -45˚F / -43˚C
**SFGO Ultra 68**  | L091768 | 68 | 20 | 67 / 10 | 325 / 59 | 141 | 495˚F / 257˚C | 530˚F / 277˚C | -45˚F / -43˚C
**SFGO Ultra 100** | L0983100 | 100 | 30 | 98 / 14 | 556 / 77 | 145 | 485˚F / 252˚C | 520˚F / 271˚C | -43˚F / -42˚C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 26 for more information and package part number suffix.
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.

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<th>SAE NO</th>
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<th>VISCOSITY SUS @100˚F / 210˚F</th>
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<td>L0704-</td>
<td>32</td>
<td>10</td>
<td>29 / 5</td>
<td>137 / 43</td>
<td>116</td>
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<td>46</td>
<td>20</td>
<td>42 / 7</td>
<td>196 / 47</td>
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<td>68</td>
<td>20</td>
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<td>336 / 57</td>
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<td>30</td>
<td>94 / 11</td>
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<td>40</td>
<td>135 / 14</td>
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<td>205 / 18</td>
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*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 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-68 FG: 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-142b, 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 (R-134a).

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.
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.

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

Manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact, these 100% synthetic, NSF H1 registered fluids are recommended for many types of hydraulic systems operating in food processing and bottling plants. They are outstanding lubricants for applications in which the fluid must undergo high temperature and high stress conditions over extended drain intervals.

SYNXXTREME FRH1-46: NSF H1 Registered, 100% Synthetic, FM Approved, Fire Resistant, Hydraulic Fluid.

A high performance hydraulic fluid designed for demanding industrial and food processing applications requiring fire resistance, and excellent anti-wear performance over wide temperature ranges. NSF H1 registered, this product complies with CFR 21, section 178.3570.

**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.

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

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

Hydraulic Jack Oil:
A heavy-duty, high pressure hydraulic oil, designed to meet the requirements of most hydraulic 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 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.

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, roofers 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 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.

Cleansing and Flushing Fluids

Syn Flush: Synthetic, Cleaning, Flushing and Lubricating 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.

Hydroflush: Synthetic, Cleaning, Flushing Fluid.
This premium quality, pure synthetic fluid is designed to clean and dissolve varnish/deposits found in hydraulic systems containing mineral oils and other synthetic fluids. It is also recommended for flushing hydraulic systems converting from petroleum/mineral oil to synthetic polyalkylene glycol based hydraulic fluids. It is compatible with petroleum/mineral oils as well as Biosynxtreme HF hydraulic fluids. Part Number L0798-. Available in pails and drums. See page 26 for packaging information and package part number suffix.

Syn Flush FG and Pure Flush: NSF H-1 Registered, Food Machinery Grade, Cleansing and Flushing Fluids.
See page 21 for information on these NSF H1 registered, food machinery grade, cleansing and flushing fluids.
## 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.

### 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-3000 Series: 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 most general high speed anti-friction bearings. An outstanding synthetic grease for very low temperature applications.

### Table: Family of Synthetic Grease Products

<table>
<thead>
<tr>
<th>Product Group</th>
<th>Grease Type</th>
<th>NLGI Grade</th>
<th>Base Oil Type</th>
<th>Base Oil VIS. cSt @ 40˚C</th>
<th>Recommended Temperature Range</th>
<th>ASTM Drop Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYN-1600</td>
<td>Calcium Sulfonate Complex</td>
<td>0</td>
<td>Synthetic PAO</td>
<td>100</td>
<td>-45˚F / -43˚C</td>
<td>390˚F / 199˚C</td>
</tr>
<tr>
<td>SYN-3000</td>
<td>Calcium Sulfonate Complex</td>
<td>1</td>
<td>Synthetic PAO</td>
<td>100</td>
<td>-45˚F / -43˚C</td>
<td>440˚F / 227˚C</td>
</tr>
<tr>
<td>SYN-EMB</td>
<td>Calcium Sulfonate Complex</td>
<td>2</td>
<td>Synthetic PAO</td>
<td>100</td>
<td>-45˚F / -43˚C</td>
<td>450˚F / 232˚C</td>
</tr>
<tr>
<td>SYN-GR-132</td>
<td>Calcium Sulfonate Complex</td>
<td>1</td>
<td>Synthetic PAO</td>
<td>220</td>
<td>-60˚F / -40˚C</td>
<td>440˚F / 227˚C</td>
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<tr>
<td>SYN-1600</td>
<td>Calcium Sulfonate Complex</td>
<td>2</td>
<td>Synthetic PAO</td>
<td>220</td>
<td>-60˚F / -40˚C</td>
<td>450˚F / 232˚C</td>
</tr>
</tbody>
</table>

*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-3000 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-EMB is available in Cartridges, Pails, 1/4 Drums & Drums. See page 26 for package part number suffix.

*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. Recommended for a wide variety of heavy-duty industrial, construction, quarry, aggregate and mining applications. Red in color.

**1240 Series**: Lithium-Polymer Type, 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.


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**LUBRIPLATE PRODUCT**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>GREASE TYPE</th>
<th>NLGI</th>
<th>BASE OIL TYPE</th>
<th>OIL VISC. cSt @ 40°C</th>
<th>RECOMMENDED TEMPERATURE RANGE</th>
<th>ASTM DROP POINT</th>
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<tr>
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<tr>
<td>1500</td>
<td>L0163-</td>
<td>Lithium Complex</td>
<td>00</td>
<td>Petroleum Oil</td>
<td>200</td>
<td>-5°F / -21°C</td>
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<td>1550</td>
<td>L0164-</td>
<td>Lithium Complex</td>
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<td>Petroleum Oil</td>
<td>200</td>
<td>-5°F / -21°C</td>
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<tr>
<td>1551</td>
<td>L0165-</td>
<td>Lithium Complex</td>
<td>1</td>
<td>Petroleum Oil</td>
<td>200</td>
<td>-5°F / -21°C</td>
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<tr>
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<td>L0166-</td>
<td>Lithium Complex</td>
<td>2</td>
<td>Petroleum Oil</td>
<td>200</td>
<td>0°F / -18°C</td>
</tr>
<tr>
<td>*1500 Series Greases are available in Tubs, 1/4 Drums &amp; Drums. No. 1551 &amp; No. 1552 are also available in Cartridges and Perma Lubricators. See pages 26 and 27 for package part number suffix.</td>
<td></td>
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<td>LTR-2</td>
<td>L0167-</td>
<td>Lithium Complex</td>
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<td>Petroleum Oil</td>
<td>460</td>
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<td>1241</td>
<td>L0104-</td>
<td>Lithium Polymer</td>
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<td>1242</td>
<td>L0106-</td>
<td>Lithium Polymer</td>
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<td>1444</td>
<td>L0227-</td>
<td>Aluminum Complex</td>
<td>2</td>
<td>Petroleum Oil</td>
<td>626</td>
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<td>3000</td>
<td>L0108-</td>
<td>Moly-Lithium</td>
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<td>Petroleum Oil</td>
<td>237</td>
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<tr>
<td>3000-W</td>
<td>L0107-</td>
<td>Moly-Lithium</td>
<td>1</td>
<td>Petroleum Oil</td>
<td>60</td>
<td>-30°F / -34°C</td>
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<tr>
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<td>Petroleum Oil</td>
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<td>-10°F / -23°C</td>
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<td>Aluminum Complex</td>
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<td>Petroleum Oil</td>
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<td>*730 Series Greases are available in Tubs, 1/4 Drums, Drums and Perma Lubrication. No. 730-2 is also available in Cartridges. See page 26 and 27 for package part number suffix.</td>
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<td>1200-2</td>
<td>L0102-</td>
<td>Lithium 12 Hydroxy</td>
<td>2</td>
<td>Petroleum Oil</td>
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<td>-10°F / -23°C</td>
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<td>630-A</td>
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<td>135</td>
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<td>*630 Series Greases are available in Tubs, 1/4 Drums &amp; Drums. 630-2 is available in Cartridges. 630-AA is available in tubes. 630-AA &amp; 630-AAA are available in Permas. See page 26 &amp; 27 for more information.</td>
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</table>
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: Anhydrous Calcium Based Grease For Cold Temperatures.
Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

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.

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.

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.

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. Excellent fifth wheel lubricants.

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.
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 tubs, 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, pails and 1/4 drums. See page 26 for package part number suffix.

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. L0119-. Available in mini tubes, small tubes, cans, pails, 1/4 drums and drums. 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, tubs, 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.

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.
BIO-SYNXTREME HF Series: Polyalkylene Glycol (PAG)-Based, Biodegradable (Pw1), Synthetic Hydraulic Fluids. These high performance hydraulic fluids are designed for demanding industrial and marine (VGP) applications requiring environmental sensitivity, fire resistance, and excellent anti-wear properties over wide temperature ranges. They are Polyalkylene Glycol (PAG) based fluids, that are anhydrous (water-free). They do not break down to form sludge and they do not hydrolyze in the presence of water. They do not cause a sheen or discoloration on the surface of the water or adjoining shorelines. Rated “Practically Non-Toxic” to fish and other aquatic wildlife according to the U.S. Fish and Wildlife Service hazard classification. They exceed 13 stages of the FZG non-acidic test, and are Environmentally Acceptable Lubricants (EALs) according to the definitions and requirements of the US EPA 2013 Vessel General Permit (VGP) Requirements. Not compatible with hydrocarbon-based hydraulic fluids. As with any fluid conversion, recognized industry procedures including system cleanup and flushing should be followed. (LUBRIPLATE HYDROFLUSH Recommended - See Page 9).

SYNXTREME AC Series: Polyolster (POE)-Based, 100% Synthetic Air 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.

SYNCOOL & SYNCOOL FG: Biodegradable, Polyglycolester (PGE)-Based Compressor Fluids. These high-performance biodegradable, polyglycol/ester (PGE)-based, synthetic air compressor fluids were 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. They are readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1). Excellent thermal and oxidation stability helps eliminate harmful deposits and extend drain intervals. SYNCOOL FG is NSF H1 Registered and NSF/ISO 21469 Certified Food Machinery Grade.

PGO Series: Eco-Responsible, Inherently Biodegradable, Polyalkylene Glycol (PAG)-Based, Synthetic Gear Oils. 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 non-acidic test, and are Environmentally Acceptable Lubricants (EALs) according to the definitions and requirements of the US EPA 2013 Vessel General Permit (VGP) Requirements. Not compatible with hydrocarbon-based hydraulic fluids. As with any fluid conversion, recognized industry procedures including system cleanup and flushing should be followed. (LUBRIPLATE HYDROFLUSH Recommended - See Page 9).

BIO-SYNXTREME EGO-150: Environmentally Responsible, Ultimately Biodegradable (Pw1), Synthetic, Gear Oil. This ultimately biodegradable, synthetic, gear oil is designed to be used in environmentally sensitive areas where demanding operating conditions are expected. It is recommended for a wide variety of gear box configurations including: helical, bevel helical and planetary gear reducers. It delivers outstanding extreme pressure and anti-wear performance and provides good thermal stability.

**LUBRIPLATE**

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<th>PRODUCT</th>
<th>GRADE</th>
<th>AMG NO</th>
<th>SAE GEAR OIL NO.</th>
<th>SAE NO.</th>
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<th>VISCOSITY INDEX</th>
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<th>FIRE POINT</th>
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<td>SYGCOOL AC Series Fluids are available in 5 Gallon Pails and 55 Gallon Drums. See page 26 for more information and the package part number suffix.</td>
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</table>
ECO-Responsible, Petroleum/Mineral Oil-Based Hydraulic Oils

**ZF Series Hydraulic Fluids**: Heavy-Duty, Zinc-Free, Extended Life, Hydraulic Fluids. These heavy-duty fluids are designed to perform in the most demanding hydraulic applications. They can withstand elevated temperatures and high pressures over extended periods. They provide long service life and extended fluid change intervals. They meet the service requirements of Vickers (Eaton) M-2950-S, L-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. Free of zinc or silicone compounds.

**Marine-Safe Hydraulic Oils**: Non-Toxic to Aquatic Life (LC50). Formulated with a “zinc-free” anti-wear additive system, these eco-friendly oils meet or exceed the performance requirements of conventional hydraulic oils while providing an additional level of environmental safety. Non-toxic to aquatic life, they exceed U.S. EPA LC50 and U.S. Fish and Wildlife requirements. They meet the service requirements of Vickers, Racine, Denison HF-0, HF-2 and Cincinnati Milacron P-68, P-69 and P-70.

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**Bio-Based Series Hydraulic Oils**: Ultimately Biodegradable (Pw1), Vegetable-Based Oils. For use in hydraulic systems where 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).

**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.

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**Biodegradable Penetrating Oil - Multi-Purpose Lubricating Fluid Spray**:
See page 22 for information about this product.

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**ECO-Responsible Grease**

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.

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.

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

**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 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.**

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>NSF REG. NUMBER</th>
<th>CLASS CODE</th>
<th>LUBRIPLATE PRODUCT</th>
<th>NSF REG. NUMBER</th>
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<td>HTCL FG-68</td>
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**NSF CATEGORY CODES** - H-1 Lubricants with incidental food contact. 3H Release agents. HT1 Heat transfer fluids with incidental contact.
SFGO Ultra Series: 100% Synthetic, NSF H1 Registered, High-Performance, Multi-Purpose Fluid Lubricants.
Formulated with 100% synthetic H1 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 172.1882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 14 stages of the FZG Test. Contains LUBRIPLATE’s proprietary additive system AW/EP/FG ULTRA XTREME.

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.

SYNCOOL FG: NSF H1 Registered, 100% Synthetic, Polyglycoelester (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.

SYNXTREME FRH1-46: NSF H1 Registered, 100% Synthetic, FM Approved, Fire Resistant, Hydraulic Fluid. A high performance hydraulic fluid designed for demanding industrial and food processing applications requiring fire resistance, and excellent anti-wear properties over wide temperature ranges. NSF H1 registered, this product complies with CFR 21, section 178.3570.

SSO-FG 100 & SSO-FG 150: 100% Synthetic Lubricants for Angelus and Zacmi Seaming/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.

SYN MPFG-7: NSF H1 Registered, 100% Synthetic, Polyalphaolefin (PAO) Based, Fluid Lubricant. Recommended to lubricate plastic modular wear strips and sprockets; as a barrier fluid; and for applications where a low temperature fluid is required.
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-0/220, SYNXTREME FG-1/220 and SYNXTREME FG-2/220 are formulated with a heavier (ISO 220 Grade) base fluid and are recommended for equipment operating under high temperature conditions. SYNXTREME FG-Series Greases Contain LUBRI-ARMOUR Anti-Microbial Additive.

SFL Series:
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 for a variety of applications. Contains LUBRI-ARMOUR Anti-Microbial Additive.

SYN ST High Performance H-1 Special: Food Machinery Grade Silicone Lubricant.
Manufactured with PTFE, this 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).

SYNXTREME HT MAX: Ultra High Temperature, Perfluoropolyether PFPE-Based Grease.
An advanced, PTFE thickened, perfluoropolyether PFPE-based grease that is recommended for high-temperature applications up to 550°F / 288°C and applications where chemical inertness and solvent resistance is required. Provides extremely long service life and extended lubrication intervals. Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Greases.
**USP Mineral Oil-Based, Food Machinery Grade Oils**

**FMO-AW Series:** Multi-Purpose, Anti-Wear Fortified, Food Machinery 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. This series is also available in an orange color which helps in leak detection. FMO-1100AW and FMO-2400AW pass 12 stages of the FZG test. Contains LUBRIPLATE’s proprietary additive system AW/EP/FG ULTRA XTREMITY.

**FMO Series 45 thru 500:** Multi-Purpose, Direct Contact. USP White Mineral Oils. (NSF H1 & 3H Registered) These multi-purpose, pure USP while 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. Contains LUBRIPLATE’s proprietary additive system AW/EP/FG ULTRA XTREMITY.

**Seamer Oil FG Series:** Food Grade, USP Mineral Oil 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.

**PDO Light and Pan Divider Oil:** USP White Mineral Oils For Pan Divider Applications. (NSF H1 & 3H Registered) These oils meet and exceed FDA regulation 21 CFR 172.878 for direct contact with food. Recommended for pan divider oil applications.

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**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 | 102 | 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 / 120 | 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.**

**FG Cooker Oil**

**Seamer Oil FG-100**

**Seamer Oil FG-150**

**STO-FG Oil**

**FP-150**

**FP-150L**

**FMO-900 AW**

**Seamer Oil FG-100**

**Seamer Oil FG-150**

**STO-FG Oil**

**PM 500 White Oil**

**PDO Light and Pan Divider Oil**

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*H1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.*
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.

Lubriplate FGL Series Greases Contain LUBRI-ARMOUR Anti-Microbial Additive.

CS-FG EP-2:
High-Performance, Calcium Sulfonate Complex, Food Grade Grease.
This high-performance, multi-purpose, calcium sulfonate complex thickened grease offers superior protection from rust and corrosion, excellent resistance to water wash off and outstanding high-temperature properties. NSF H1 Registered.

Contains LUBRI-ARMOUR Anti-Microbial Additive.

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. Contains LUBRI-ARMOUR Anti-Microbial Additive.

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. PURE TAC and PURE TAC LIGHT Contain LUBRI-ARMOUR Anti-Microbial Additive.

CLEARPLEX Series:
Clear, Multi-Purpose, Aluminum Complex, Food Grade Greases.
Manufactured with a non-zinc oxide anti-wear additive, 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. CLEARPLEX is available in 4 oz tubes and is an excellent pre-lube for assembly of machinery, bearings, O-rings, seals, gaskets, guides, sliding surfaces, valves, etc. All CLEARPLEX Series greases contain LUBRI-ARMOUR Anti-Microbial Additive.
SYNXTREME FG-2 Spray:  
A multi-purpose, synthetic, high temperature, extreme pressure, water resistant, NSF H1 registered food machinery lubricant. Provides long lasting protection against friction, wear and corrosion.  
Contains LUBRI-ARMOUR Anti-Microbial Additive.  
11 oz / 312 g aerosol can. Part No. L0305-063.

FGL-1 Spray:  
Class H1 lubricant in handy, easy to use spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives.  
Contains LUBRI-ARMOUR Anti-Microbial Additive.  
11 oz / 312 g aerosol can. 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. Packed in 12 oz / 340 g aerosol can. Part No. L0912-063.

Food Grade Silicone Lubricant:  
A multi-purpose, H1 registered, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, chains, O-rings, rubber seals and general lubrication. Packed in 9 OZ. / 269 g spray can. Part No. L0723-063.

FP-150 Spray:  
An NSF H1 registered food grade fluid lubricant for numerous general oiling applications at food, beverage and pharmaceutical processing facilities. It is a clear, thick / tacky adherent fluid especially suitable for proofer oven chains. 11 oz / 312 g aerosol can. Part No. L0735-063.

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. Contains LUBRI-ARMOUR Anti-Microbial Additive.  
11 oz / 312 g aerosol can. Part No. L0145-063.

FMO-85-AW Spray:  

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.**

**H2 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.
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. Losens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 11 OZ. / 312 g. spray can. Part No. L0135-063.

Gear Shield Extra Heavy:
A tough, tacky, extreme pressure, water resistant grease developed for lubrication of open gears, slides, pins and other applications where an adhesive lubricant is needed. Excellent for fifth wheel applications. 11 OZ. / 312 g. spray can. Part No. L0152-063.

Spray Lube `A` White Lithium Grease:
A multi-purpose, white lithium-based lubricant of medium density. Sprays like fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. 11 OZ. / 312 g. spray can. Part No. L0034-063.

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. / 312 g. spray can. Part No. L0149-063.

Marine & Auto Guard:

Oil Well In a Bottle:

NSF H1 Registered, 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 11 OZ. / 312 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-.

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. L0530-.

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-.

*Metal Working Fluids are available in Jugs, Pails, 1/4 Drums & Drums (Excluding Metal Working Fluid Aerosol). See page 26 for more information and package part number suffix.
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 Tubs, Pails, 1/4 Drums and Drums. See page 26 for package part number suffix.

Special Auto Marine Grease:

No. 105 General Purpose Grease In Small Tubes:

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 Tubs, Pails, 1/4 Drums and Drums.

Motor Oils and Transmission Fluids

LUBRIPLATE makes available heavy-duty/high detergent motor oils for gasoline and diesel vehicles packaged in drums, pails, jugs and quarts. Five grades of non-detergent motor oils are available. Automatic transmission fluids are also available.

Call us at 1-800-733-4755 to learn more.
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

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NSF H1 Registered, Food Processing Plant Application Recommendations

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<td>• AIR COMPRESSORS RECIPROCATING AIR COMPRESSORS ROTARY SCREW REFRIGERATION COMPRESSORS</td>
<td>SYNXTREME FG-2/220* or PURE TAC*</td>
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<td>• AIR LINE SYSTEMS</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<tr>
<td>• HYDRAULIC SYSTEMS - NORMAL TEMPS</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<td>LOW TEMPERATURES</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<td>• HIGH SPEED BEARINGS GREASE OIL</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<tr>
<td>• CHEMICAL &amp; CONDENSATE PUMPS GREASE OIL</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<tr>
<td>• VACUUM PUMPS</td>
<td>SFL-1* or FGL-1*</td>
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<tr>
<td>• DRAFT &amp; VENTILATING FANS</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>GREASE OIL</td>
<td>SYNXTREME ULTRA-68* or FMO-350AW*</td>
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<td>• STIRRUPS - BOTTLE FILLERS</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• PEACH PITTERS - CHAIN DRIVES</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• SEAMING ROLLS, SPINDLES, CHUCKS</td>
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<td>• COOKERS - CARRIER BEARINGS</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<tr>
<td>• COOKER VALVE LUBRICATION (MANZEL LUBRICATIONS)</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• CAN SEAMING &amp; CLOSING MACHINES (AUTOMATIC LUBRICATIONS)</td>
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<td>• SIGHT FEED OILERS</td>
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<td>• ELECTRIC MOTOR BEARINGS</td>
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<td>• STEAM VALVES &amp; PEElers</td>
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<td>• SCRUBBERS GREASE FITTINGS</td>
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<td>CHAIN DRIVES</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• FORKLIFTS WHEEL BEARINGS HYDRAULIC OIL</td>
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<td>CHAIN LIFTS</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• RUST PREVENTATIVE, LAYING UP</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• CLEANING &amp; FLUSHING FLUID / OIL</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• PAN DIVIDER OIL</td>
<td>SYNXTREME FG-2* or FGL-2*</td>
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<td>• LUBRIPLATE WHITE OILS</td>
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*NSF H1 Registered (Food Machinery Grade)
### Oil Viscosity Classification Comparisons

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<th>ISO GRADE</th>
<th>AGMA NO.</th>
<th>SAE GEAR OIL</th>
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**NLGI Grease Classifications**

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<th>WORKED PENETRATION</th>
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<tr>
<td>00</td>
<td>SEMI-FLUID</td>
<td>445 - 475</td>
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<td>0</td>
<td>SEMI-FLUID</td>
<td>400 - 430</td>
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<td>SOFT</td>
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<td>MEDIUM</td>
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<td>VERY HARD</td>
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### Interchange / Crossover Recommendations

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<th>Air Compressor Fluid Interchange / Crossover Recommendations</th>
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<tbody>
<tr>
<td>KLUBEROIL 4UH1-100</td>
<td>100 SFGO ULTRA 100*</td>
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<td>KLUBEROIL 4UH1-150</td>
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<td>KLUBEROIL 4UH1-320</td>
<td>320 SFGO ULTRA 320*</td>
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<tr>
<td>KLUBEROIL 4UH1-680</td>
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<td>KLUBEROIL 4UH1-680</td>
<td>680 SFGO ULTRA 680*</td>
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* NSF H1 Registered (Food Machinery Grade)
**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**

<table>
<thead>
<tr>
<th>AVG. NET WT. / CONTENTS</th>
<th>MINI TUBES (2)</th>
<th>SMALL TUBES (2)</th>
<th>TUBES 10 OZ / 284 g</th>
<th>SPRAY CANS (3)</th>
<th>CARTRIDGES (4)</th>
<th>SM TUBES 16 OZ / 454 g</th>
<th>TUBES 6 LBS / 2.72 kg</th>
<th>BOTTLES 1 QUART 346 ml</th>
<th>JUGS 1 GAL / 3.79 L</th>
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<td>Air Compressor Fluids / Oils</td>
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<td>-</td>
<td>-</td>
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<td>Hydraulic Oils</td>
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<td>-</td>
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</tr>
<tr>
<td>*Greases</td>
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<td>-086</td>
<td>-092</td>
<td>-063</td>
<td>-098</td>
<td>-004</td>
<td>-005</td>
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**Package Specifications**

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<td>6x8x7</td>
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<td>16x12x4.5</td>
<td>16x16x8</td>
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<td>26 Lbs / 11.8 Kg</td>
<td>26 Lbs / 11.8 Kg</td>
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**Synthetic Fluids**

-060

**Air Compressor Fluids / Oils**

-060

**Hydraulic Oils**

-060

**Greases**

-035

**Petroleum Based Gear Oils**

-035

**Specialty Oils & Fluids**

-060

**Food Grade Fluids / Oils**

-060

**Motor Oils / Trans. Fluids**

-060

**Metalworking Fluids / Oils**

-060

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**PRODUCT / PACKAGE**

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<tr>
<th>AVG. NET WT. / CONTENTS</th>
<th>PAIL</th>
<th>QTR DRUM</th>
<th>FULL DRUM</th>
<th>DISPOSABLE BIN</th>
<th>PASSPORT BIN</th>
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**Package Specifications**

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<th>15x27</th>
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<td>445 Lbs/202 Kg</td>
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<td>2400 Lbs/1089 Kg</td>
<td>3200 Lbs/1452 Kg</td>
<td>4800 Lbs/2177 Kg</td>
<td>3800 Lbs/1724 Kg</td>
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<td>*Avg. Gross Shipping Weight</td>
<td>38 Lbs/17.2 Kg</td>
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<td>3200 Lbs/1452 Kg</td>
<td>4800 Lbs/2177 Kg</td>
<td>3800 Lbs/1724 Kg</td>
<td>4900 Lbs/2223 Kg</td>
</tr>
</tbody>
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*Items Sold By Weight. Other Items Sold by Volume.
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 and provide a safer workplace environment.

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.

**Lubriplate Oils and Fluids are not available in Perma PRO Series Lubricators.**
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  Summit Agencies Ltd.
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  604-329-7848 / brian@summitagencies.ca

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  khenricks@lubriplate.com

- Dan Wrocklage
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  dwrocklage@lubriplate.com

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