



TM

**MOLYKOTE**®

FROM DOW CORNING

**High Performance Industrial Lubricating Fluids**



**Extends Equipment Life. Simplifies Yours.**

DOW CORNING OFFERS ONE OF THE MOST COMPLETE LINES of industrial lubricants and fluids available from any supplier in the world. This means we

## One Trusted Source for All Your Lubricant Needs

offer an unparalleled, consolidated source of lubricant supply under

one company name – a company you know and trust for superior products and services. As a result, you can get all your lubricants, technical service, product information, from one, trusted source – Dow Corning!

### *From Mineral Oils to Synthetics*

With Dow Corning, you get access to the most complete line of lubrication products available, including mineral oils and state-of-the-art synthetic fluids. We help manage your lubricating maintenance requirements with a comprehensive line of fluids and oils for every need. Marketed under the **Molykote**<sup>®</sup> brand name, these products help keep hydraulic systems, air compressors, pumps, gearboxes, chain drives, refrigeration compressors and other plant mechanical systems operating at peak efficiency.

Our product line, which includes lubricants suited for food contact, is particularly suited for use in food and beverage processing plants, as well as steel, chemical, petrochemical and other industries.

### *Specialty Lubricants*

Our offering also includes a complete line of high-performance specialty lubricants that help reduce friction and wear, extend lubrication intervals and reduce maintenance and replacement costs in applications with performance requirements that cannot be met by conventional oils and greases. These products are formulated to withstand heavy loads; dirty, dusty or chemically harsh environments; and a wide range of temperatures and speeds under extreme conditions. In addition to



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lubricating fluids, Dow Corning offers five classes of specialty lubricants including compounds, greases, pastes, anti-friction coatings and dispersions. For more information about our specialty lubricants, contact your local Dow Corning representative or check our website at [www.dowcorning.com](http://www.dowcorning.com).

# MOLYKOTE Industrial Lubricants

## High Quality, Better Value

**Molykote** High Performance Industrial Lubricants from Dow Corning provide superior performance for nearly every lubricating maintenance requirement in your plant.

This line of **Molykote** lubricants and fluids meets specifications over a wide temperature range due to the high purity level of the base stocks. Oil drain intervals can be extended because these fluids survive high temperatures and continue to perform as originally specified, which reduces costs associated with lubricant consumption. In addition, unlike conventional mineral oils, **Molykote** products do not contain many of the by-products that cause lubricant degradation. As a result, they help prevent buildup of “varnish” on internal parts, which helps extend equipment life and prevent costly cleaning of components. All these factors add up to more continuous trouble-free operation and lower overall maintenance costs. This means you get the best value for your lubricant dollar! Superior lubricant performance. Lower overall costs.

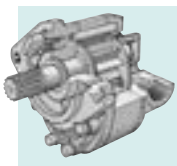


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## MOLYKOTE High Performance Industrial Lubricating Fluids

**Molykote** synthetic oils are made by combining molecular “building blocks” to meet targeted performance specifications and to minimize impurities. Synthetic oils are formulated with new generation performance-enhancing additives. **Molykote** mineral oils are produced in a series of proprietary hydroprocessing steps, which ensures that they are nearly free of contaminants. Synthetic blends are comprised of synthetic and mineral oil base stocks.

### Hydraulic Oils



**Molykote** hydraulic oils minimize formation of emulsions in contact with water due to the purity of the base fluid. They will generally perform successfully in hydraulic systems far longer than conventional hydraulic oils. Plants can gain significant savings from reduced oil consumption, reduced disposal cost, labor savings and fewer interruptions to production. These non-toxic oils are derived from hydrocracked or synthetic base stocks and can be used in systems designed for low pour point or high flash point mineral oils.

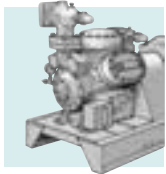
Hydraulic Oils <sup>1</sup>	ISO Grade	Viscosity @ 40°C, cSt	Viscosity @ 100°C, cSt	Viscosity Index	Pour Point (°C)	Base Oil
L-0532FG Multi Purpose Light Oil <sup>2</sup>	32	31.2	5.3	103	-18	MO
L-0346 Hydraulic Oil	46	45	6.6	105	-21	MO
L-0346FG Hydraulic Oil	46	44.5	6.6	100	-21	MO
L-1346 Synthetic Blend Hydraulic Oil	46	40.1	7.1	109	-21	PAO/MO
L-1346FG Synthetic Blend Hydraulic Oil	46	43.1	7.1	110	-21	PAO/MO
L-1368FG Synthetic Blend Hydraulic Oil	68	67.1	9.3	139	-21	PAO/MO
L-0368FG Hydraulic Oil	68	66	8.3	100	-15	MO
L-0568 Multi Purpose Oil <sup>2</sup>	68	68.5	9.2	110	-15	MO
L-0510 Multi Purpose Oil <sup>2</sup>	100	103	11.8	95	-15	MO
L-0510FG Multi Purpose Oil <sup>2</sup>	100	105.1	12	103	-15	MO

<sup>1</sup>Typical values; not for use in preparing specifications.

<sup>2</sup>The oil data is also displayed in the *Molykote*® MP Oils Data Sheet.

FG designation = NSF status H1, if no designation, NSF status H2 unless otherwise noted.

## Compressor and Vacuum Pump Oils



**Molykote** compressor and pump fluids are formulated to meet or exceed the performance of all comparable OEM fill products. These compressor and vacuum pump oils are compatible with mineral oils and systems designed for mineral oil lubrication. Dow Corning can perform oil analysis to ensure that the right product is used for each application and that product life is maximized.

<b>Air Compressor Oil</b>	ISO Grade	Viscosity @ 40°C, cSt	Viscosity @ 100°C, cSt	Viscosity Index	Pour Point (°C)	Base Oil
L-1232FG Synthetic Compressor Oil	32	30.2	5.7	138	-60	PAO
L-1232 Synthetic Compressor Oil	32	30.1	5.7	144	-60	PAO
L-3232 Synthetic Compressor Oil	32	39.3	7.9	178	-48	PAG/POE
L-0246 Compressor Oil	46	46.6	6.8	100	-18	MO
L-1246FG Synthetic Compressor Oil	46	47	7.9	138	-42	PAO
L-1246 Synthetic Compressor Oil	46	44.2	7.7	138	-57	PAO
L-3246 Synthetic Compressor Oil	46	48.2	9.4	183	-45	PAG/POE
L-4646 Synthetic High Temp Compressor Oil	46	48.1	7.1	111	-42	POE
L-1268 Synthetic Compressor Oil	68	62	9	121	-54	PAO
L-1210 Synthetic Compressor Oil	100	98	14	145	-48	PAO
L-4610 Synthetic Blend Piston Compressor Oil	100	91.7	11.1	101	-15	MO/DE

### Vacuum Pump Oil

L-1668FG Synthetic Blend Vacuum Pump Oil	68	63.1	9	113	-18	PAO/MO
L-0610 Vacuum Pump Oil	100	106.9	12.4	100	-18	MO

### Ammonia Compressor Oil

L-0660 Para Synthetic Ammonia Refrigeration Compressor Oil	68	69	9	100	-39	MO
L-0668 Ammonia Refrigeration Compressor Oil	68	58	6.7	59	-30	MO

### Special Purpose Fluids

L-1605FG Synthetic Barrier Fluid	5	5.3	2	124	-60	PAO
L-4640 Synthetic Compressor Flush Fluid	32-46	38.6	5.7	65	-42	DE
L-0268 Process Gas Oil <sup>1</sup>	68	68	9	102	-33	MO
L-1568 Process Gas Oil <sup>1</sup>	68	68	10	140	-30	PAO
L-1510 Process Gas Oil <sup>1</sup>	100	100	14	138	-30	PAO

## Multi-Purpose Oils



**Molykote** multi-purpose oils provide protection and lubrication for a wide range of moving components in industrial systems. Depending on the application, your Dow Corning representative can help select the right oil from a range of viscosities, additive packages and pour points.

<b>Multi-Purpose Oils<sup>1</sup></b>	ISO Grade	Viscosity @ 40°C, cSt	Viscosity @ 100°C, cSt	Viscosity Index	Pour Point (°C)	Base Oil
L-0532FG Multi Purpose Light Oil <sup>2</sup>	32	31.2	5.3	103	-18	MO
L-0568 Multi Purpose Oil <sup>2</sup>	68	68.5	9.2	110	-15	MO
L-0510 Multi Purpose Oil <sup>2</sup>	100	103	11.8	95	-15	MO
L-0510FG Multi Purpose Oil <sup>2</sup>	100	105.1	12	103	-15	MO

<sup>1</sup>Typical values; not for use in preparing specifications.

<sup>2</sup>The oil data is also displayed in the *Molykote*® Hydraulic Oils data sheet.

FG designation = NSF status H1, if no designation, NSF status H2 unless otherwise noted.

## Gearbox and Chain Oils



**Molykote** gearbox and chain lubricants help prevent wear and process interruptions in power transmission systems and components. Compared to conventional oils they also offer greater resistance to oxidation and stable performance at high temperatures and under high loads.

**Molykote** gearbox oils maximize fill intervals and maintain viscosity characteristics at wide temperature ranges.

Gearbox Oils <sup>1</sup>	ISO Grade	Viscosity @ 40°C, cSt	Viscosity 100°C, cSt	Viscosity Index	Pour Point (°C)	Base Oil
L-0115 Gear Oil	150	149.4	14.8	100	-18	MO
L-0115FG Gear Oil	150	150	15.4	100	-18	MO/PB
L-0122 Gear Oil	220	223	20.4	101	-18	MO/PB
L-0122FG Gear Oil	220	219.1	20	101	-21	MO/PB
L-0132 Gear Oil	320	312	31	134	-18	MO/PB
L-0146 Gear Oil	460	456.6	32.8	107	-18	MO/PB
L-0146FG Gear Oil	460	441.1	33.1	107	-18	MO/PB
L-0168 <sup>1</sup> Gear Oil	680	659	42	105	-21	MO/PB
L-1115 Synthetic Blend Gear Oil	150	145	15.6	100	-18	MO/PB
L-1115FG Synthetic Blend Gear Oil	150	134.7	17.4	122	-39	PAO/MO
L-1122 Synthetic Blend Gear Oil	220	211.6	19.5	120	-21	PAO/MO
L-1122FG Synthetic Blend Gear Oil	220	197.8	24	142	-33	PAO/MO
L-1132 Synthetic Gear Oil	320	342.5	30.8	126	-39	PAO/PB
L-1146 Synthetic Gear Oil	460	455.2	45.1	154	-36	PAO/PB
L-1146FG Synthetic Gear Oil	460	380.2	39.2	147	-36	PAO
L-1168 <sup>1</sup> Synthetic Gear Oil	680	674	48	128	-27	PAO/PB

### Chain Oils<sup>1</sup>

L-0460FG Chain Oil	68	66	8.3	100	-12	MO
L-1468FG Synthetic Freezer Chain Oil	68	65.8	9.8	131	-54	PAO
L-1428 High Temperature Chain Oil		285	24	110	-15	POE/PB

<sup>1</sup>Typical values; not for use in preparing specifications.

FG designation = NSF status H1, if no designation, NSF status H2 unless otherwise noted.



## Other Dow Corning Lubricant Products

Dow Corning also offers the most extensive line of specialty industrial lubricants commercially available and meets virtually every need. The table below provides an overview of applications for our lubricant compounds, greases, pastes, anti-friction coatings and dispersions featuring temperature capabilities ranging from -375°F to 2550°F (-226°C to 1400°C). If you have a special plant lubrication problem or need, ask your Dow Corning representative for a recommendation.

Lubricant Types	Lubricating Technology
Greases	MO, PAO, Ester, PIB, Silicone, Fluorosilicone, PFPE, Phenylether
Compounds	Silicone
Pastes	Graphite, MOS <sub>2</sub> , PTFE, Metallic Oxides
Dry-Film Lubricants	Graphite, MOS <sub>2</sub> , PTFE, Silicone Wax
Dispersions	Dispersions, MO, PAO, Ester, PIB, PAG

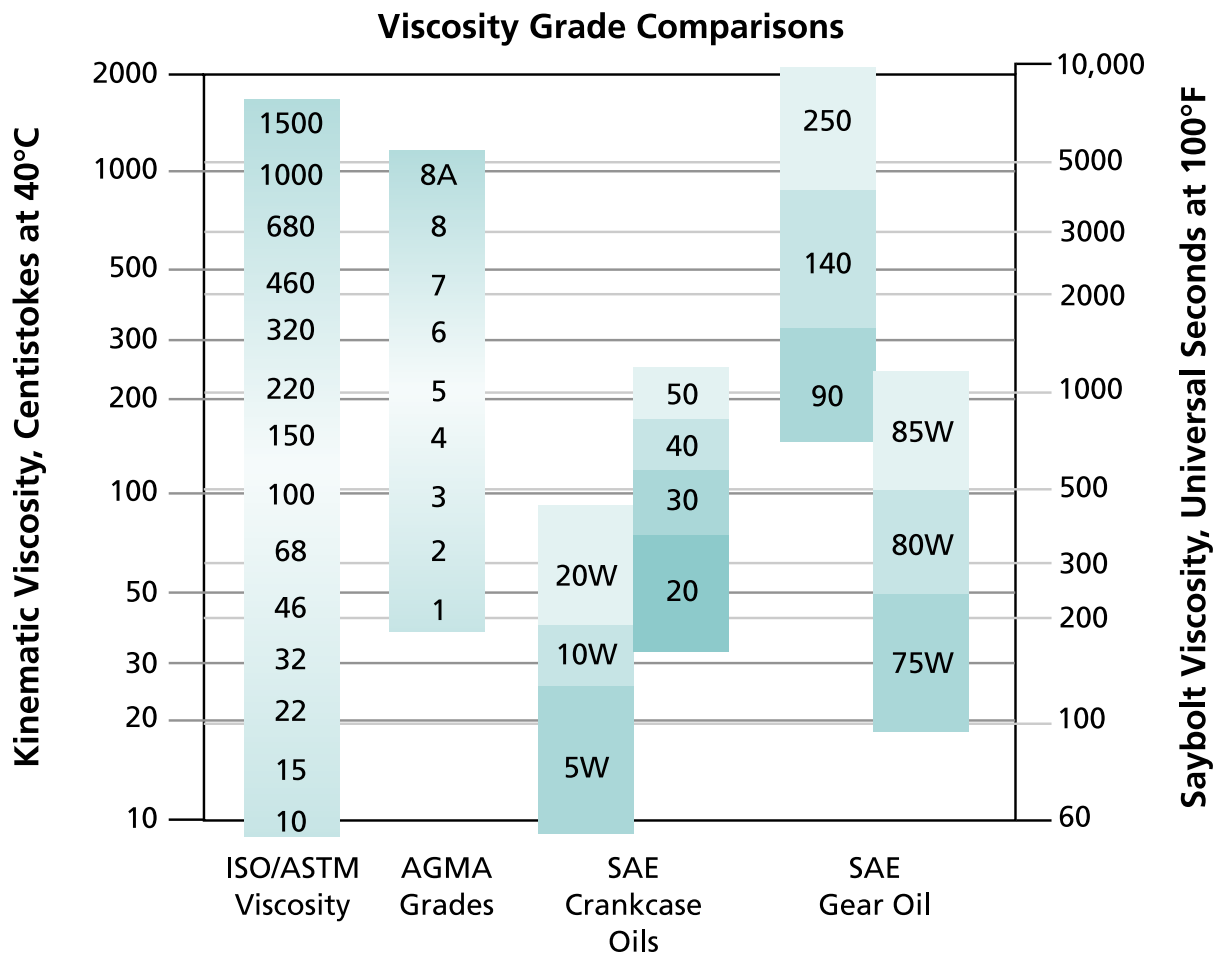


Chart courtesy of Society of Tribologists & Lubrication Engineers.

# MOLYKOTE High Performance Industrial Lubricants

## Key Benefits

- Long life reduces lubricant usage, lowers maintenance cost
- More efficient preventative maintenance process utilizing Dow Corning's service programs
- Reduced inventory expenditures through consolidating to one trusted source
- Wide range of products conforming to FDA/USDA requirements
- Backed by the global resources and services of Dow Corning
- Available locally from most industrial distributor networks

**Reference:**

- DE = Diester
- MO = Mineral Oil
- PAO/MO = Polyalphaolefin/Mineral Oil
- PAG/POE = Polyalkylene Glycol/Polyolester
- PAO = Polyalphaolefin
- PIB = Polyisobutene
- PB = Polybutene





## Regulations and Classifications Pertaining to Food Processing

**Molykote** lubricating fluids conform to USDA listing requirements under H-1 or H-2 designations and most are Kosher approved. The H-1 designation means that the lubricant may have incidental food contact not to exceed 10 ppm. The H-2 designation means that the lubricant may not have contact with food.

## One Call

Combined with other related products and services, Dow Corning's offering meets virtually every plant maintenance requirement imaginable. In fact, with our extensive product line, there are very few industrial plant lubrication needs that cannot be met using a **Molykote** brand product from Dow Corning.

With our **Molykote** brand of lubricants, as well as our strong local presence through an extensive distributor network, customers typically find solutions to all their lubrication requirements with one simple call. That's it!

As a leading producer of plant maintenance products, Dow Corning's substantial investment in lubricant manufacturing facilities, technical expertise and related resources is evidence of our commitment to meet your expectations for top quality products and services. As your preferred supplier, we can help ensure that your maintenance operation gets the best product performance and the best value.

### Lower Overall Maintenance Costs:

- Wider Temperature Range
- Longer Oil-Drain Intervals
- Reduced Lubricant Consumption
- Extended Equipment Lifetime
- Reduced Energy Consumption

# How To Contact Us

For nearly 60 years, OEM designers, maintenance and materials engineers around the world have trusted the **Molykote**<sup>®</sup> brand for performance and expertise to solve or prevent lubrication problems. **Molykote** solutions are available through a distributor network of more than 3,000 channel partners around the globe. To learn more about our extensive product and service offering, visit [www.dowcorning.com](http://www.dowcorning.com) or [www.molykote.com](http://www.molykote.com), or email [industrial@dowcorning.com](mailto:industrial@dowcorning.com)

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## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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[www.dowcorning.com](http://www.dowcorning.com)