

**MOLYKOTE®
BRAND**

**TOTAL INDUSTRIAL
LUBRICATION**

Trust/Performance



MOLYKOTE®

High Performance Industrial Lubricants

*The Most Complete Line
of Industrial Lubricants
& Fluids Available!*

- Synthetic Fluids
- Mineral Oil Fluids
- Speciality Lubricants

DOW CORNING

DOW CORNING OFFERS THE MOST COMPLETE LINE of industrial lubricants and fluids available from any single supplier in the world. This means we offer an unparal-

One Trusted Source for All Your Lubricant Needs

leled, 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, application support, technical service and 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. In so doing, we help manage your lubricating maintenance requirements with a comprehensive line of fluids and oils for every need. Marketed under the **Molykote**[®] 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.

Speciality Lubricants

Our offering also includes a complete line of high-performance speciality 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 lubricating fluids, Dow Corning offers five

classes of speciality

lubricants including compounds, greases, pastes, anti-friction coatings and dispersions. For more information about our speciality lubricants, contact your local Dow Corning representative.



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, thanks to the high purity level of the base stocks. Oil draining 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 build-up of “varnish” on internal parts, which helps extend equipment life and prevent costly cleaning of fouled components. All these factors add up to more continuous trouble-free operation and lower overall maintenance costs, due to the superior lubricant performance. This means you get the best value for your money! Superior lubricant performance. Lower overall costs.

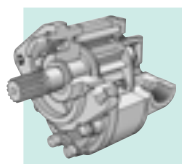
So remember, “... when it absolutely has to work, it has to be *Molykote*!”



MOLYKOTE High Performance Industrial Lubricating Fluids

Molykote synthetic oils are made by combining molecular “building blocks” to meet targeted performance specifications and to minimise impurities. Synthetic oils are formulated with new generation performance-enhancing additives. *Molykote* mineral oils are produced in a patented hydrocracking process, 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 minimise 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, labour 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 pouring point or high flash point mineral oils.

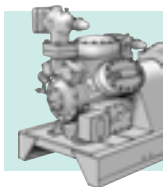
<i>Molykote</i> ® brand Product Name	USDA	ISO Grade	Viscosity @ 40°C	Viscosity Index	Pouring Point (°C)	Base Oil
Hydraulic Oils¹						
L-0346 Hydraulic Oil	H-2 ²	46	45	99	< -32	MO
L-0346FG Hydraulic Oil	H-1 ³	46	44.5	99	< -18	MO
L-0368FG Hydraulic Oil	H-1	68	66	94	< -14	MO
L-1346 Synthetic Blend Hydraulic Oil	H-2	32-46	45.8	112	< -34	PAO/MO
L-1346FG Synthetic Blend Hydraulic Oil	H-1	46	46.1	112	< -34	PAO/MO
L-1368FG Synthetic Blend Hydraulic Oil	H-1	68	62.1	129	< -51	PAO/MO
L-0568 Multi Purpose Oil	H-2	68	68.5	110	< -32	MO

¹Typical values; not for use in preparing specifications.

²The H-2 designation means that the lubricated part may not have contact with food.

³The H-1 designation means that the lubricated part may have incidental food contact not to exceed 10 ppm.

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 performs oil analysis to ensure that the right product is used for each application and that product life is maximised.

Molykote® brand Product Name	USDA	ISO Grade	Viscosity @ 40°C	Viscosity Index	Pouring Point (°C)	Base Oil
Air Compressor Oil¹						
L-0246 Rotary Compressor Oil	H-2 ²	46	46.6	99	< -18	MO
L-1240 Synthetic Blend Compressor Oil	H-2	32-46	37.2	109	< -34	PAO/MO
L-1240FG Synthetic Blend Compressor Oil	H-1 ³	46	45.8	112	< -23	PAO/MO
L-1232 Synthetic Compressor Oil	H-2	32	30.1	130	< -62	PAO
L-1232FG Synthetic Compressor Oil	H-1	32	30.2	131	< -62	PAO
L-1246 Synthetic Compressor Oil	H-2	46	44.2	142	< -51	PAO
L-1246FG Synthetic Compressor Oil	H-1	46	47	138	< -59	PAO
L-3232 Synthetic Compressor Oil	H-2	32	39.3	178	< -46	PAG/POE
L-3246 Synthetic Compressor	H-2	46	48.2	183	< -43	PAG/POE
L-4646 Synthetic High Temp Compressor Oil	H-2	46	48.1	107	< -37	POE
L-4610 Synthetic Blend Piston Compressor Oil	H-2	100	98.4	98	< -23	MO/DE

Vacuum Pump Oil¹

L-0610 Vacuum Pump Oil	H-2	100	96.5	110	< -12	MO
L-1668FG Synthetic Blend Vacuum Pump Oil	H-1	68	63.1	119	< -23	PAO/MO

Ammonia Compressor Oil¹

L-0668 Ammonia Refrigeration Compressor Oil	H-2	68	58	53	< -37	MO
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Special Purpose Fluids¹

L-4640 Synthetic Compressor Flush Fluid	H-2	32-46	38.6	82	< -48	DE
L-1605FG Synthetic Barrier Fluid	H-1	5	6.1	124	< -37	PAO

¹Typical values; not for use in preparing specifications.

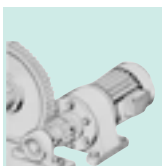
²The H-2 designation means that the lubricated part may not have contact with food.

³The H-1 designation means that the lubricated part may have incidental food contact not to exceed 10 ppm.



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 maximise fill intervals and maintain viscosity characteristics at wide temperature ranges.



Molykote® brand Product Name	USDA	ISO Grade	Viscosity @ 40°C	Viscosity Index	Pouring Point (°C)	AGMA² No	SAE No	Base Oil
Gearbox Oils¹								
L-0115 Gear Oil – ISO 150	H-2 ³	150	149.4	98	< -12	4	80-90	MO
L-0115FG Gear Oil – ISO 150	H-1 ⁴	150	157.3	99	< -7	4	80-90	MO
L-0122 Gear Oil – ISO 220	H-2	220	233	101	< -3	5	90	MO
L-0122FG Gear Oil – ISO 220	H-1	220	227.1	101	< -7	5	90	MO
L-0132 Gear Oil – ISO 320	H-2	320	318	103	< -12	6	90-140	MO
L-0146 Gear Oil – ISO 460	H-2	460	456.6	105	< -12	7	140	MO
L-0146FG Gear Oil – ISO 460	H-1	460	461.5	105	< -12	7	140	MO
L-1115 Synthetic Blend Gear Oil – ISO 150	H-2	150	160	99	< -12	4	80-90	PAO/MO
L-1115FG Synthetic Blend Gear Oil – ISO 150	H-1	150	146.1	131	< -37	4	80-90	PAO/MO
L-1122 Synthetic Blend Gear Oil – ISO 220	H-2	220	211.6	100	< -12	5	90	PAO/MO
L-1122FG Synthetic Blend Gear Oil – ISO 220	H-1	220	215.4	139	< -37	5	90	PAO/MO
L-1132 Synthetic Gear Oil – ISO 320	H-2	320	342.5	126	< -37	6	90-140	PAO
L-1146 Synthetic Gear Oil – ISO 460	H-2	460	455.2	154	< -34	7	140	PAO
L-1146FG Synthetic Gear Oil – ISO 460	H-1	460	380.2	152	< -37	7	140	PAO

Chain Oils¹

L-1460FG Synthetic Blend Chain Oil	H-1	68	66	94	< -15	-	30	PAO/MO
L-1468FG Synthetic Freezer Chain Oil	H-1	68	65.8	131	< -51	-	30	PAO

¹Typical values; not for use in preparing specifications.

²AGMA is an acronym for American Gear Manufacturers Association.

³The H-2 designation means that the lubricated part may not have contact with food.

⁴The H-1 designation means that the lubricated part may have incidental food contact not to exceed 10 ppm.

Multipurpose Oils

Molykote multipurpose 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 pouring points.



Molykote® brand Product Name	USDA	ISO Grade	Viscosity @ 40°C	Viscosity Index	Pouring Point (°C)	Base Oil
Multipurpose Oils¹						
L-0510 Multi Purpose Oil	H-2 ²	100	103	103	< -18	MO
L-0510FG Multi Purpose Oil	H-1 ³	100	105.1	103	< -12	MO
L-0532FG Multi Purpose Light Oil	H-1	32	31.2	103	< -18	MO
L-0568 Multi Purpose Oil	H-2	68	68.5	110	< -32	MO

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³The H-1 designation means that the lubricated part may have incidental food contact not to exceed 10 ppm.



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Other Dow Corning Lubricant Products

Dow Corning also offers the most extensive line of speciality 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 -226°C to 1400°C (-375°F to 2550°F). 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
Compounds	Silicone
Pastes	Graphite, MoS_2 , PTFE, Metallic Oxides
Dry-film Lubricants	Graphite, MoS_2 , PTFE, Silicone Wax
Dispersions	Dispersions, MO, PAO, Ester, PIB, PAG

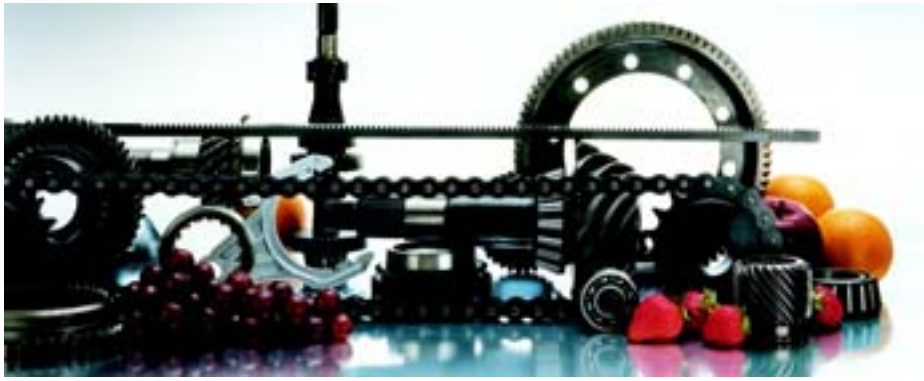
MOLYKOTE High Performance Industrial Lubricants

Key Benefits

- Long life reduces lubricant usage, lowers maintenance cost
- More efficient preventative maintenance process utilising Dow Corning's service programmes
- Reduced inventory expenditures through consolidating to one trusted source
- Wide range of products conforming to US Department of Agriculture requirements
- Backed by the global resources and services of Dow Corning

Reference:

- DE = Diester
- MO = Mineral Oil
- MoS_2 = Molybdenum Disulfide
- PAO/MO = Polyalphaolefin/Mineral Oil
- PAG = Polyalkylene Glycol
- PAG/POE = Polyalkylene Glycol Polyolester
- PAO = Polyalphaolefins
- PFPE = Perfluoropolyether
- PIB = Polyisobutene
- PTFE = Polytetrafluoroethylene



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Regulations and Classifications Pertaining to Food Processing

Molykote lubricating fluids conform to US Department of Agriculture listing requirements under H-1 or H-2 designations and many are kosher approved. The H-1 designation means that the lubricated part may have incidental food contact not to exceed 10 ppm. The H-2 designation means that the lubricated part 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 usually 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 Change Intervals
- Reduced Lubricant Consumption
- Extended Equipment Life
- Reduced Energy Consumption

Customer Service and Technical Assistance

You receive consistent, comprehensive customer service from Dow Corning. We will analyse your oil, estimate correct oil change intervals and determine the content of trace metals or other potential contaminants. Dow Corning's manufacturing controls and commitment to quality result in products that always yield the same performance properties, minimising production upsets caused by variations in product performance.

How To Contact Us

Dow Corning has sales offices, manufacturing sites and science and technology laboratories around the globe. Telephone numbers of locations near you are available on the world wide web at www.molykote.com/iam.

Front cover photos, top to bottom: AV03646; AV04054; AV00749.

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 dispatch. 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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