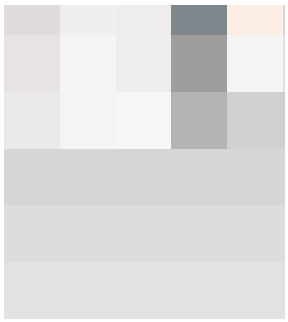
High-Performance Industrial Lubricating Oils

Molykote® mineral oils are produced in a series of proprietary hydrotreating steps, which ensure that they have a high level of saturates and are nearly free of contaminants.

Molykote synthetic oils are produced through chemical synthesis to meet targeted performance specifications and to minimize impurities. Synthetic oils are formulated with new generation performance-enhancing additives. Synthetic blends are comprised of synthetic and hydrotreated mineral oil base stocks.

All oils in this section are available in 18,9l pails and 208l drums.



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Gearbox Oils

Molykote® gearbox oils 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 oil drain intervals and maintain viscosity characteristics at wide temperature ranges. Molykote gearbox oils meet AGMA 9005-E02. In addition to AGMA, Molykote L-21XX series gearbox oils also meet DIN 51 517 Part 3, US Steel 224, Flender, Cincinnati Machine, David Brown SL.53.101.

Compressor and Vacuum Pump Oils

Molykote® compressor and pump fluids are formulated to meet or exceed the performance of comparable OEM fill products. These fluids are all compatible with mineral oils and systems designed for mineral oil lubrication.

Hydraulic Oils and Multi-purpose 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 costs, labor savings and fewer interruptions to production. These non-toxic oils are derived from hydrotreated or synthetic base stocks and can be used in systems designed for low pour point or high flash point mineral oils.

Molykote® Multi-purpose oils provide protection and lubrication for a wide range of moving components in industrial systems. They are typically used in smaller volume applications throughout the plant. Depending on the application, your Dow Corning representative can help select the right oil from a range of viscosities, additive packages and pour points.

Chain Oils

Molykote® chain oils help protect against dirt and frequent attack by moisture and detergents. Unique tackifier additive promotes adherence to metal without thickening oil. As a consequence, the relatively low viscosity of the oils improves penetrating into the chain links.

Special Purpose Oils

Molykote® special purpose oils have been designed for unique purposes or applications within industrial processes. Depending on the application, your Dow Corning representative can help select the right oil for your special requirements.

Molykote® Process Gas Oils have been specially formulated for use in chemical process gas streams consisting of < 2% oxygen and consisting of harsh corrosive gasses such as HCl, HBr or methyl chloride. These oils will not form sludge or gel in the presence of many harsh gas streams that would destroy conventional vacuum pump or compressor lubricants. A special corrosion inhibitor inhibits acidic corrosion.

Molykote® Gearbox Oils

Molykote® Gearbox Oils	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)	FZG (ASTM D5182)
L-0115FG Gear Oil	150	H-1	MO	150	15	100	-18	+260	+277	0.86	40/40/0 (1)	1a	Pass	12+
L-0122 Gear Oil	220	H-2	MO	223	20	101	-18	+265	+288	0.86	40/40/0 (1)	1a	Pass	12+
L-0122FG Gear Oil	220	H-1	MO	219	20	101	-21	+254	+266	0.86	40/40/0 (1)	1a	Pass	12+
L-0146FG Gear Oil	460	H-1	MO	441	33	107	-18	+302	+327	0.88	40/40/0 (1)	1a	Pass	12+
L-1115FG Synthetic Gear Oil	150	H-1	PAO	149	17	129	-48	+266	+293	0.85	40/40/0 (1)	1a	Pass	12+
L-1122FG Synthetic Gear Oil	220	H-1	PAO	217	24	127	-39	+260	+288	0.85	40/40/0 (1)	1a	Pass	12+
L-1146FG Synthetic Gear Oil	460	H-1	PAO	460	39	147	-36	+285	+313	0.85	40/40/0 (1)	1a	Pass	12+
L-2110 Synthetic Gear Oil	100	H-2	PAO	107	14	138	-50	+270	+301	0.84	40/40/0 (10)	1a	Pass	12+
L-2115 Synthetic Gear Oil	150	H-2	PAO	149	18	138	-43	+279	+304	0.85	40/40/0 (10)	1a	Pass	12+
L-2122 Synthetic Gear Oil	220	H-2	PAO	224	24	141	-40	+279	+307	0.85	40/40/0 (10)	1a	Pass	12+
L-2132 Synthetic Gear Oil	320	H-2	PAO	320	33	145	-37	+281	+311	0.86	40/40/0 (10)	1a	Pass	12+
L-2146 Synthetic Gear Oil	460	H-2	PAO	444	42	147	-35	+285	+313	0.86	40/40/0 (10)	1a	Pass	12+
L-2168 Synthetic Gear Oil	680	H-2	PAO	667	61	160	-32	+288	+338	0.86	40/40/0 (10)	1a	Pass	12+

Molykote® Air Compressor Oils

Molykote® Air Compressor Oils	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
L-1210 Synthetic Compressor Oil	100	H-2	PAO	98	14	145	-48	+271	+288	0.84	40/40/0 (1)	1a	Pass
L-1232 Synthetic Compressor Oil	32	H-2	PAO	30	6	144	-60	+243	+271	0.84	40/40/0 (1)	1a	Pass
L-1232FG Synthetic Compressor Oil	32	H-1	PAO	30	6	138	-60	+241	+268	0.83	40/40/0 (1)	1a	Pass
L-1246 Synthetic Compressor Oil	46	H-2	PAO	44	8	138	-57	+268	+279	0.84	40/40/0 (1)	1a	Pass
L-1246FG Synthetic Compressor Oil	46	H-1	PAO	47	8	138	-42	+246	+274	0.83	40/40/0 (1)	1a	Pass
L-1268 Synthetic Compressor Oil	68	H-2	PAO	62	9	121	-54	+271	+304	0.84	40/40/0 (1)	1a	Pass
L-4611 Synthetic Reciprocating Compressor Oil	100	H-2	DE	98	10	62	-28	+268	+291	0.96	40/40/0 (1)	1a	Pass

Molykote® Vacuum Pump Oils

Molykote® Vacuum Pump Oils	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
L-0610 Vacuum Pump Oil	100	H-2	MO	107	12	100	-18	+260	+274	0.87	40/40/0 (1)	1a	Pass
L-1668FG Synthetic Blend Vacuum Pump Oil	68	H-1	PAO/MO	63	9	113	-18	+229	+241	0.86	40/40/0 (1)	1a	Pass

Molykote® Ammonia Compressor Oils

Molykote® Ammonia Compressor Oils	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)
L-0660 Para Synthetic Ammonia	68	H-2	MO	69	9	100	-39	+227	+246	0.87	40/40/0 (1)	1b

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)	FZG (ASTM D5182)
-18	+260	+277	0.86	40/40/0 (1)	1a	Pass	12+
-18	+265	+288	0.86	40/40/0 (1)	1a	Pass	12+
-21	+254	+266	0.86	40/40/0 (1)	1a	Pass	12+
-18	+302	+327	0.88	40/40/0 (1)	1a	Pass	12+
-48	+266	+293	0.85	40/40/0 (1)	1a	Pass	12+
-39	+260	+288	0.85	40/40/0 (1)	1a	Pass	12+
-36	+285	+313	0.85	40/40/0 (1)	1a	Pass	12+
-50	+270	+301	0.84	40/40/0 (10)	1a	Pass	12+
-43	+279	+304	0.85	40/40/0 (10)	1a	Pass	12+
-40	+279	+307	0.85	40/40/0 (10)	1a	Pass	12+
-37	+281	+311	0.86	40/40/0 (10)	1a	Pass	12+
-35	+285	+313	0.86	40/40/0 (10)	1a	Pass	12+
-32	+288	+338	0.86	40/40/0 (10)	1a	Pass	12+

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
-48	+271	+288	0.84	40/40/0 (1)	1a	Pass
-60	+243	+271	0.84	40/40/0 (1)	1a	Pass
-60	+241	+268	0.83	40/40/0 (1)	1a	Pass
-57	+268	+279	0.84	40/40/0 (1)	1a	Pass
-42	+246	+274	0.83	40/40/0 (1)	1a	Pass
-54	+271	+304	0.84	40/40/0 (1)	1a	Pass
-28	+268	+291	0.96	40/40/0 (1)	1a	Pass

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
-18	+260	+274	0.87	40/40/0 (1)	1a	Pass
-18	+229	+241	0.86	40/40/0 (1)	1a	Pass

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)
-39	+227	+246	0.87	40/40/0 (1)	1b

Molykote® Hydraulic and Multi-purpose Oils

	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
L-1346FG Synthetic Blend Hydraulic Oil	46	H-1	PAO/MO	45	7	131	-42	+238	+285	0.83	40/40/0 (1)	1a	Pass
L-1368FG Synthetic Blend Hydraulic Oil	68	H-1	PAO/MO	61	9	128	-42	+243	+296	0.84	40/40/0 (1)	1a	Pass
L-0510 Multi-purpose Oil	100	H-1	MO	105	12	103	-15	+257	+282	0.87	40/40/0 (1)	1a	Pass
L-0532FG Multi-purpose Light Oil	32	H-1	MO	31	5	103	-18	+216	+229	0.86	40/40/0 (1)	1a	Pass

Molykote® Chain Oils

	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)	Temperature Range [°C]
L-1428 High Temperature Chain Oil		H-2	POE	285	24	110	-15	+243	+300	0.94	40/40/0 (1)	1a	Pass	-10 to +200
L-1468FG Synthetic Freezer Chain Oil	68	H-1	PAO	66	10	131	-54	+271	+296	0.83	40/40/0 (1)	1a	Pass	-50 to +120
L-0460FG Chain Oil	68	H-1	MO	66	8	100	-12	+241	+249	0.86	40/40/0 (1)	1a	Pass	-10 to +100
S-1500 General Chain Maintenance Oil	100	H-2	MO/DE	100	11	> 100		> +240		0.92				-10 to +200
S-1501 High Temperature/Low Friction Chain Oil		H-2	POE/DE	125-140	10.5-12.5			> +250		0.98				-25 to +250
S-1502 High Temperature Synthetic Chain Oil	150	H-2	POE/DE	150	12			> +250		0.97				-30 to +250
S-1503 High Temperature/Low Friction Chain Oil	220	H-2	POE/DE	220	16			> +250		0.97				-20 to +250
S-1504 Adhesive Low Friction Chain Oil		H-2	POE/MO	2650-2950	180-220			> +250		0.86				0 to +250
CO 220 Synthetic Chain Oil	220	H-2	POE	220						0.94				-10 to +250

Molykote® Special Purpose Oils

	ISO VG	NSF	Base Oil	Viscosity at 40°C [mm²/s]	Viscosity at 100°C [mm²/s]	Viscosity Index (ASTM D2270)	Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)
L-0268 Process Gas Oil	68	H-2	MO	68	9	102	-33	+216	+243	0.85	40/40/0 (1)	1b
L-1510 Process Gas Oil	100	H-2	PAO	100	14	138	-30	+271	+300	0.84	40/40/0 (1)	1b
L-1568 Process Gas Oil	68	H-2	PAO	68	10	140	-30	+269	+297	0.83	40/40/0 (1)	1b

Base Oils Reference

DE = Diester
MO = Mineral Oil
MO/DE = Mineral Oil/Diester
PAO = Polyalphaolefin
PAO/MO = Polyalphaolefin/Mineral Oil
POE= Polyolester
POE/DE= Polyolester/Diester

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)
-42	+238	+285	0.83	40/40/0 (1)	1a	Pass
-42	+243	+296	0.84	40/40/0 (1)	1a	Pass
-15	+257	+282	0.87	40/40/0 (1)	1a	Pass
-18	+216	+229	0.86	40/40/0 (1)	1a	Pass

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)	Rust Prevention (ASTM D665 A, B)	Temperature Range [°C]
-15	+243	+300	0.94	40/40/0 (1)	1a	Pass	-10 to +200
-54	+271	+296	0.83	40/40/0 (1)	1a	Pass	-50 to +120
-12	+241	+249	0.86	40/40/0 (1)	1a	Pass	-10 to +100
	> +240		0.92				-10 to +200
	> +250		0.98				-25 to +250
	> +250		0.97				-30 to +250
	> +250		0.97				-20 to +250
	> +250		0.86				0 to +250
			0.94				-10 to +250

Pour Point [°C]	Flash Point [°C]	Fire Point [°C]	Density at 15°C [g/ml]	Water Separability (ASTM D1401)	Corrosion, Copper Strip (ASTM D130)
-33	+216	+243	0.85	40/40/0 (1)	1b
-30	+271	+300	0.84	40/40/0 (1)	1b
-30	+269	+297	0.83	40/40/0 (1)	1b