



MOLYKOTE®

FROM DOW CORNING

**High Performance Industrial Lubricants
Application Selector Guide**



AV07061

Pastes • Greases • Compounds • Oils • Coatings • Dispersions

Rolling Element Bearings



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Assembly/ Pre-treatment	Metal to metal	-25 to +250	Prevention of fretting corrosion	TP-42
Operation	Metal to metal	-30 to +130	General purpose/high loads	BR2 Plus
		-45 to +180	Synthetic/combinations of high load, temperature high speed (to 600.000 DN)	BG-20
		-40 to +150	Extreme high speeds/long life/low noise	BG-555
		+10 to +160	Water wash-out resistance/low speed	1122
		-30 to +150	"Clean" white/food grade grease in NLGI #0, 1 or 2	G-0050FG, G-0051FG, G-0052FG
		-40 to +150	Multi-purpose synthetic/food grade	G-4500, G-4501
		-40 to +177	Synthetic lubrication/moderate to high loads	G-4700
		-73 to +180	Wide temperature range	33 Light, 33 Medium
		-20 to +290	Extreme high temperatures	41
		-40 to +200	High temperatures	44 Light, 44 Medium
		-40 to +230	Solvent resistance/high load/high temperature/NLGI #2	3451
		-65 to +250	High temperature/chemical resistant	HP-300
Storage protection	Metal components		Corrosion protection/dry film	Metal Protector Plus

Press Fit Joints



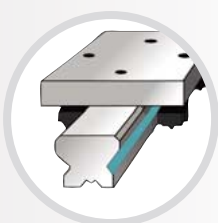
Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Assembly	Metal to metal	-35 to +450	Very low coefficient of friction	G-Rapid Plus
		-25 to +450	Medium coefficient of friction	G-n Plus
		-25 to +250	White product	D
		-30 to +300	White/food grade	P-1900

Maintenance



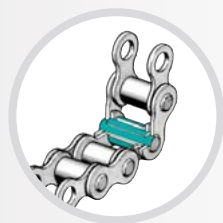
Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Assembly of threaded connections	Metal to metal	-30 to +650	General purpose	1000
		-30 to +300	White/food grade	P-1900
			Consistent assembly torque	1000
		Aluminum or stainless steel	-40 to +1400	No corroding/extreme temperature/sulphur and metal-free
Press fitting	Metal to metal	-35 to +450	Very low coefficient of friction	G-Rapid Plus
		-25 to +450	Medium coefficient of friction	G-n Plus
		-25 to +250	White product	D
		-30 to +300	White/food grade	P-1900
Disassembly	Metal to metal	-50 to +50	Loosen rusted parts	Multigliss, Supergliss
Corrosion protection	Metal to metal	-30 to +300	Corrosive environment	Cu-7439 Plus
Storage: Corrosion protection	Metal to metal		Long stocking intervals	Metal Protector Plus
Oiled machine components	Metal to metal	Depends on oil to which it is added	High loads	A, M-55 Plus
Sticking of rubber, metal and plastic parts	Metal to plastic to rubber	-40 to +200	Silicone release agent	Separator Spray

Linear Motion Guides



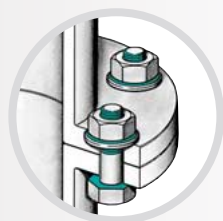
Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Operation	Metal to metal	-25 to +120	General purpose lubricant	Multilub
		-25 to +110	High loads	Longterm 2 Plus
		-40 to +180	High temperatures	BG-20
Pre-treatment		-65 to +175	High wear due to intermittent operation	3402C

Chain Drives



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Greased chains	Metal to metal	+10 to +160	Water wash-out resistant/high speeds	1122
		-25 to +150	High speeds/good penetration	MKL-N
		-40 to +230	Tacky paste/wide temperature range/water-resistant	P-40
		-180 to +450	Long-term lubrication	D-321 R
Oiled chains	Metal to metal		High-temperature chains/MoS ₂ content	M-30
			Extreme loads/high MoS ₂ content	M-55 Plus
		-10 to +200	High temperature/low volatility/no odor	L-1428
		-50 to +120	Wide temperature range/PAO/food grade/tacky	L-1468FG
			Corrosion protection/dry film	Metal Protector Plus

Threaded Connections



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Pre-assembly	Metal to metal	-30 to +650	High temperature/no scattering of assembly torque	1000
		-30 to +1100	High temperature/general purposes/contains no lead or nickel	HSC Plus
		-25 to +250	White product	D
		-30 to +300	White/food grade	P-1900
		-40 to +1500	Very high temperature/compatible to a wide range of high temperature steels	P-74
	Aluminum or stainless steel	-40 to +1400	No corroding/extreme temperature sulfur and metal-free	P-37
Disassembly	Metal to metal		Loosen rusted parts	Multigliss
Storage Protection	Metal components		Corrosion protection/dry film	Metal Protector Plus

Power Screw Drives



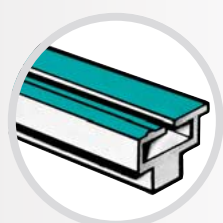
Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution		
Operation	Metal to metal	-30 to +130	General purpose	Multilub		
		-30 to +130	General purpose	BR-2 Plus		
		-40 to +150	Multi-purpose synthetic/food grade	G-4500		
		-180 to +450	Dusty environments/extreme pressure	D-321 R		
			Plastic to metal/plastic to plastic	-73 to +180	Wide temperature range/long life	33 Light, 33 Medium
				-40 to +150	Multi-purpose synthetic/food grade	G-4500
		-40 to +230	Chemical resistance	3451		

Control Cables



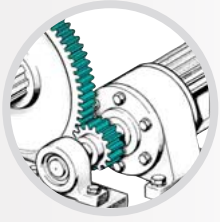
Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution		
Operation		-40 to +130	General purpose semi-synthetic	PG-75		
		-73 to +180	Wide temperature range/low friction	33 Light, 33 Medium		
			Metal wire/cable too metal liner	-180 to +450	Dusty environments/low friction	D-321 R
				-40 to +150	Multi-purpose synthetic/food grade	G-4500
Storage Protection	Metal components		Corrosion protection/dry film	Metal Protector Plus		

Slides, Guides & Tracks



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Operation	Metal to metal	-30 to +150	"Clean" white grease/food grade	G-0052FG
		-30 to +300	"Clean" white paste/food grade	P-1900
		-30 to +650	High temperatures	1000
		-25 to +450	High loads	G-n Plus
		-40 to +150	Multi-purpose synthetic/moderate loads/food grade	G-4500
		-40 to +177	Synthetic lubrication/high loads	G-4700
		-180 to +450	Dusty environments	D-321 R
			Aluminum surfaces/nonstaining	Metalfarm
			Plastic to plastic/metal	-40 to +150
		-73 to +180	Wide temperature range/long life	33 Light, 33 Medium
Storage Protection	Metal components		Corrosion protection/dry film	Metal Protector Plus

Gears



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Pretreatment	Metal to metal	-25 to +450	Run-in lubricant	G-Rapid Plus
Operation	Metal to metal	-40 to +150	Multi-purpose synthetic/food grade	G-4500
		-40 to +177	Synthetic lubrication/high loads	G-4700
		+10 to +160	Tacky grease	1122
		-40 to +230	Tacky paste/wide temperature range/water-resistant	P-40
		-180 to +450	Dusty environments	D-321 R
		-70 to +250	Heat-cure bonded	106
		-40 to +130	Multi-purpose semi-synthetic	PG-75
		-45 to +150	Multi-purpose synthetic/high loads/fiber reinforced	EM-30L
		-45 to +150	Multi-purpose synthetic/high loads/good adhesion	YM-103
		-73 to +180	Wide temperature range/low friction	33 Light, 33 Medium
-35 to +250	Very high temperatures/very good compatibility/resistant to chemicals	HP-870		
In Gear Boxes	Metal to metal		Extreme loads/reduce energy	M-55 Plus
			Heavily loaded, slow speed/AW/EP additives	L-21xx
			Excellent AW properties/bronze friendly	L-11xx
			Synthetic/food grade	L-11xxFG
			Mineral oil/food grade	L-01xxFG
Storage Protection	Metal components		Corrosion protection/dry film	Metal Protector Plus

Plain Bearings, Bushings & Sleeves



Application	Substrates	Temperature Range [°C]	Other Considerations	Molykote® Solution
Pretreatment	Metal to metal	-25 to +450	Run-in lubricant	G-Rapid Plus
		-70 to +200	Solventless run-in coating	7400
		-180 to +450	Dusty environments	D-321 R
Operation	Metal to metal	-30 to +130	General purpose	BR-2 Plus
		-45 to +180	General purpose synthetic	BG-20
		-30 to +150	"Clean" white grease/food grade	G-0052FG
		-40 to +230	Tacky paste/wide temperature range/water-resistant	P-40
		-25 to +250	"Clean" white paste/food grade	P-1900
		-25 to +250	Prevention of fretting corrosion	TP-42
		-40 to +150	Multi-purpose synthetic/food grade	G-4500
		-40 to +177	Synthetic lubrication/high loads	G-4700
		-40 to +230	Chemical/solvent resistance	3451
		-40 to +130	Multi-purpose semi-synthetic	PG-75
		-50 to +140	Multi-purpose synthetic	G-2003
		-45 to +130	Multi-purpose synthetic/high loads/fiber reinforced	EM-30L
		-45 to +150	Multi-purpose synthetic/high loads/good adhesion	YM-103
		-73 to +180	Wide temperature range	33 Light, 33 Medium
		-40 to +230	Solvent resistance	3451
		-40 to +200	Wash-out resistance/low speeds	111 Compound
-35 to +250	Very high temperatures/very good compatibility/resistant to chemicals	HP-870		
Storage Protection	Metal components		Corrosion protection/dry film	Metal Protector Plus

Pastes

Grease-like materials containing a very high percentage of solid lubricants. Used for assembly and lubrication of highly loaded, slow moving parts for threaded fasteners.

1000
Cu-7439 Plus
D
DX
E
G-n Plus

Molykote® Solution

G-Rapid Plus
HSC plus
HTP
M-77
P-37
P-40

P-74
P-1600
P-1900
TP-42
U-n
X

Greases

Solid to semisolid materials consisting of a lubricating fluid, thickening agent and additives. Used on rolling element bearings and other moving parts.

41
33 Light
33 Medium
44 Light
44 Medium
55 O-Ring
165 LT
822M
1102
1122
1292
3451
3452
7348
7514
BG-20
BG-555
BR2 Plus

Molykote® Solution

EM-30L
EM-50L
EM-60L
FB 180
G-67
G-68
G-72
G-807
G-0050FG
G-0051FG
G-0052FG
G-0100
G-0101
G-0102
G-1001
G-2001
G-2003

G-4500
G-4501
G-4700
High Vacuum Grease
HP-300
HP-870
Longterm 00
Longterm 2 plus
Longterm W2
Multilub
PG-21
PG-54
PG-65 Plastislip
PG-75
X5-6020
YM-102
YM-103

Compounds

Grease-like materials composed of silicone fluids and silica fillers. Used for their sealing, dielectric, non-metal-to-metal lubricating and release properties.

Molykote® Solution

111 Compound
Dow Corning® 4
Dow Corning® 7
Dow Corning® 340

High-Performance Industrial Lubricating Oils

Based on hydroprocessed mineral oils or synthetic base stocks such as polyalphaolefin (PAO) and esters, these lubricating fluids are fortified with carefully selected additives to provide optimum performance and service life while maximizing protection of the equipment and machinery they are designed to lubricate.

Molykote® Solution

Chain Oils
Compressor and Vacuum Pump Oils
Gearbox Oils
Hydraulic Oils and Multi-purpose Oils
Special Purpose Oils

Coatings

"Lubricating paints"; when applied, these materials cure to form dry, solid lubricant coatings that are bonded to the surface.

106
3400A Leadfree
3402C
7400
7405

Molykote® Solution

7409
D 10
D-321 R
D-3484
D-708

D-96
L-0500
Metal Protector Plus
PTFE-N UV
S-1010

Dispersions

Finely divided solid lubricants suspended in lubricating fluids; preferred when it is necessary to apply solid lubricants in liquid form.

Molykote® Solution

A
HTF
M-30
M-55 Plus

MKL-N
Multigliss
OmniGliss
W15

* For more information on the product and service offering in your area, please contact our sales representative or one of our offices listed in this brochure.

How To Contact Us

For nearly 60 years, OEM designers, maintenance and materials engineers around the world have trusted the Molykote® 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.molykote.com or email industrial@dowcorning.com.

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