



**MOLYKOTE**<sup>®</sup>  
FROM DOW CORNING

# Mottek

*"Endüstriyel yağlar/Bakım Kimyasalları ve Teknolojileri"*

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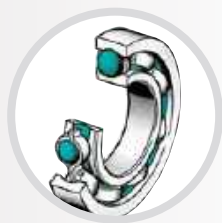
High Performance Industrial Lubricants  
Application Selector Guide



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

## 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



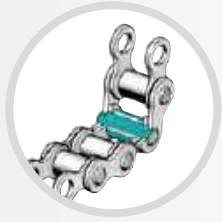
Application	Substrates	Temperature Range [ °C]	Other Considerations	Molykote® Solution
Assembly of threaded connections	Metal to metal	-30 to +650	General purpose	1000
		-30 to +300	White/food grade	P-1900
			Consistent assembly torque	1000
		Aluminum or stainless steel	-40 to +1400	No corroding/extreme 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



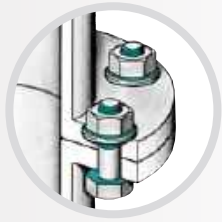
Application	Substrates	Temperature Range [ °C]	Other Considerations	Molykote® Solution
Operation	Metal to metal	-25 to +120	General purpose lubricant	Multilub
		-25 to +110	High loads	Longterm 2 Plus
		-40 to +180	High temperatures	BG-20
Pre-treatment		-65 to +175	High wear due to intermittent operation	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 <sub>2</sub> content	M-30
			Extreme loads/high MoS <sub>2</sub> 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	Multigloss
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



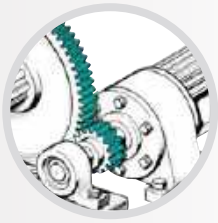
Application	Substrates	Temperature Range [ °C]	Other Considerations	Molykote® Solution		
Operation		-40 to +130	General purpose semi-synthetic	PG-75		
		-73 to +180	Wide temperature range/low friction	33 Light, 33 Medium		
			Metal wire/cable too metal liner	-180 to +450	Dusty environments/low friction	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	Metalform
	Plastic to plastic/metal	-40 to +150	Multi-purpose synthetic/food grade	G-4500, G-4501
		-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	
		Metal to plastic/ plastic to plastic	-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	
		Plastic/rubber applications	-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 P-74  
HSC plus P-1600  
HTP P-1900  
M-77 TP-42  
P-37 U-n  
P-40 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 G-4500  
EM-50L G-4501  
EM-60L G-4700  
FB 180 High Vacuum Grease  
G-67 HP-300  
G-68 HP-870  
G-72 Longterm 00  
G-807 Longterm 2 plus  
G-0050FG Longterm W2  
G-0051FG Multilub  
G-0052FG PG-21  
G-0100 PG-54  
G-0101 PG-65 Plastislip  
G-0102 PG-75  
G-1001 X5-6020  
G-2001 YM-102  
G-2003 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 <sup>®</sup> 4  
Dow corning <sup>®</sup> 7  
Dow corning <sup>®</sup> 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-96  
D 10 L-0500  
D-321 R Metal Protector Plus  
D-3484 PTFE-N UV  
D-708 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 MKL-N  
HTF Multigliss  
M-30 Omnigliss  
M-55 Plus 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.



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