DUPONT™

MOLYKOTE® high-performance industrial lubricants

Application selector guide

MOLYKOTE®



PASTES | GREASES | COMPOUNDS | OILS | COATINGS | DISPERSIONS

Selector guide

Rolling element bearings



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Assembly/ pre-treatment	Metal to metal	-25 to +250	Prevention of fretting corrosion	MOLYKOTE® TP-42 Paste
Metal to metal	Metal to metal	-30 to +130	General purpose/high loads	MOLYKOTE® BR2 Plus High Performance Grease
		-45 to +180	Synthetic/combinations of high load, temperature high speed (to 600.000 DN)	MOLYKOTE® BG-20 Synthetic Bearing Grease
		-40 to +150	Extreme high speeds/long life/low noise	MOLYKOTE® BG-555 Low Noise Grease
		+10 to +160	Water washout resistance/ low speed	MOLYKOTE® 1122 Chain and Open Gear Grease
		-30 to +150	"Clean" white/food grade grease in NLGI #0, 1 or 2	MOLYKOTE® G-0050 FM White EP Bearing Grease, MOLYKOTE® G-0051 FM White EP Bearing Grease, MOLYKOTE® G-0052 FM White EP Bearing Grease
		-40 to +150	Multipurpose synthetic/food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease, MOLYKOTE® G-4501 FM Multi-Purpose Synthetic Grease
		-40 to +177	Synthetic lubrication/ moderate to high loads	MOLYKOTE® G-4700 Synthetic Bearing Grease
		-73 to +180	Wide temperature range	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
		-20 to +290	Extreme high temperatures	MOLYKOTE® 41 Extreme High Temperature Bearing Grease
		-40 to +200	High temperatures	MOLYKOTE® 44 Light High Temperature Grease, MOLYKOTE® 44 Medium High Temperature Grease
		-40 to +230	Solvent resistance/high load/high temperature/ NLGI #2	MOLYKOTE® 3451 Chemical Resistant Bearing Grease
		-65 to +250	High temperature/chemical resistant	MOLYKOTE® HP-300 Grease
Storage protection	Metal components		Corrosion protection/dry film	MOLYKOTE® Metal Protector Plus

Press fit joints



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Assembly	Metal to metal	-35 to +450	Very low coefficient of friction	MOLYKOTE® G-Rapid Plus Paste
		-25 to +450	Medium coefficient of friction	MOLYKOTE® G-n Plus Paste
		-25 to +250	White product	MOLYKOTE® D Paste
		-30 to +300	White/food grade	MOLYKOTE® P-1900 FM Anti-Seize Paste

Maintenance



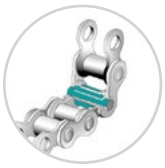
Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Assembly of threaded connections	Metal to metal	-30 to +650	General purpose	MOLYKOTE® 1000 Paste
		-30 to +300	White/food grade	MOLYKOTE® P-1900 FM Anti-Seize Paste
			Consistent assembly torque	MOLYKOTE® 1000 Paste
	Aluminum or stainless steel	-40 to +1400	No corroding/extreme temperature/sulfur and metal-free	MOLYKOTE® P-37 Anti-Seize Paste
Press fitting	Metal to metal	-35 to +450	Very low coefficient of friction	MOLYKOTE® G-Rapid Plus Paste
		-25 to +450	Medium coefficient of friction	MOLYKOTE® G-n Plus Paste
		-25 to +250	White product	MOLYKOTE® D Paste
		-30 to +300	White/food grade	MOLYKOTE® P-1900 FM Anti-Seize Paste
Disassembly	Metal to metal	-50 to +50	Loosen rusted parts	MOLYKOTE® Multigliss, MOLYKOTE® Supergliss
Corrosion protection	Metal to metal	-30 to +300	Corrosive environment	MOLYKOTE® Cu-7439 Plus Paste
Storage: Corrosion protection	Metal to metal		Long stocking intervals	MOLYKOTE® Metal Protector Plus
Oiled machine components	Metal to metal	Depends on oil to which it is added	High loads	MOLYKOTE® A Solid Lubricant Dispersion, MOLYKOTE® M-55 Dispersion
Sticking of rubber, metal and plastic parts	Metal to plastic to rubber	-40 to +200	Silicone release agent	MOLYKOTE® Separator Silicone Spray

Linear motion guides



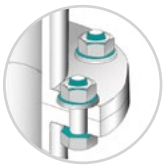
Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Operation	Metal to metal	-25 to +120	General purpose lubricant	MOLYKOTE® Multilub High Performance Grease
		-25 to +110	High loads	MOLYKOTE® Longterm 2 Plus Extreme Pressure Bearing Grease
		-40 to +180	High temperatures	MOLYKOTE® BG-20 Synthetic Bearing Grease
Pre-treatment		-65 to +175	High wear due to intermittent operation	MOLYKOTE® 3402-C LF Anti-Friction Coating

Chain drives



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Greased chains	Metal to metal	+10 to +160	Water washout resistant/ high speeds	MOLYKOTE® 1122 Chain and Open Gear Grease
		-25 to +150	High speeds/good penetration	MOLYKOTE® MKL-N Chain Grease Spray
		-40 to +230	Tacky paste/wide temperature range/ water-resistant	MOLYKOTE® P-40 Paste
		-180 to +450	Long-term lubrication	MOLYKOTE® D-321 R Anti-Friction Coating
Oiled chains	Metal to metal		High-temperature chains/ MoS_2 content	MOLYKOTE® M-30 Solid Lubricant Dispersion
			Extreme loads/high MoS_2 content	MOLYKOTE® M-55 Dispersion
		-10 to +200	High temperature/low volatility/no odor	MOLYKOTE® L-1428 High Temperature Chain Oil
		-50 to +120	Wide temperature range/ PAO/food grade/tacky	MOLYKOTE® L-1468 FM Synthetic Freezer Chain Oil
			Corrosion protection/ dry film	MOLYKOTE® Metal Protector Plus

Threaded connections



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

Power screw drives



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Operation	Metal to metal	-30 to +130	General purpose	MOLYKOTE® Multilub High Performance Grease
		-30 to +130	General purpose	MOLYKOTE® BR2 Plus High Performance Grease
		-40 to +150	Multipurpose synthetic/ food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
		-180 to +450	Dusty environments/ extreme pressure	MOLYKOTE® D-321 R Anti-Friction Coating
	Plastic to metal/plastic to plastic	-73 to +180	Wide temperature range/long life	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
		-40 to +150	Multipurpose synthetic/ food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
		-40 to +230	Chemical resistance	MOLYKOTE® 3451 Chemical Resistant Bearing Grease

Control cables



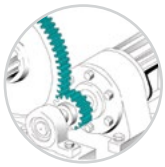
Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Operation		-40 to +130	General purpose semi-synthetic	MOLYKOTE® PG-75 Plastislip Grease
		-73 to +180	Wide temperature range/low friction	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
	Metal wire/ cable to metal liner	-180 to +450	Dusty environments/ low friction	MOLYKOTE® D-321 R Anti-Friction Coating
		-40 to +150	Multipurpose synthetic/ food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
Storage protection	Metal components		Corrosion protection/ dry film	MOLYKOTE® Metal Protector Plus

Slides, guides and tracks



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Operation	Metal to metal	-30 to +150	"Clean" white grease/ food grade	MOLYKOTE® G-0052 FM White EP Bearing Grease
		-30 to +300	"Clean" white paste/ food grade	MOLYKOTE® P-1900 FM Anti-Seize Paste
		-30 to +650	High temperatures	MOLYKOTE® 1000 Paste
		-25 to +450	High loads	MOLYKOTE® G-n Plus Paste
Oiled chains	Metal to metal	-40 to +150	Multipurpose synthetic/ moderate loads/food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
		-40 to +177	Synthetic lubrication/ high loads	MOLYKOTE® G-4700 Synthetic Bearing Grease
		-180 to +450	Dusty environments	MOLYKOTE® D-321 R Anti-Friction Coating
			Aluminum surfaces/ nonstaining	MOLYKOTE® Metalform
	Plastic to plastic/metal	-40 to +150	Multipurpose synthetic/ food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease, MOLYKOTE® G-4501 FM Multi-Purpose Synthetic Grease
		-73 to +180	Wide temperature range/long life	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
Storage protection	Metal components		Corrosion protection/ dry film	MOLYKOTE® Metal Protector Plus

Gears



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Pretreatment	Metal to metal	-25 to +450	Run-in lubricant	MOLYKOTE® G-Rapid Plus Paste
Operation	Metal to metal	-40 to +150	Multipurpose synthetic/ food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
		-40 to +177	Synthetic lubrication/ high loads	MOLYKOTE® G-4700 Synthetic Bearing Grease
		+10 to +160	Tacky grease	MOLYKOTE® 1122 Chain Grease
		-40 to +230	Tacky paste/wide temperature range/ water-resistant	MOLYKOTE® P-40 Paste
		-180 to +450	Dusty environments	MOLYKOTE® D-321 R Anti-Friction Coating
		-70 to +250	Heat-cure bonded	MOLYKOTE® 106 Anti-Friction Coating
	Metal to plastic/ plastic to plastic	-40 to +130	Multipurpose semi-synthetic	MOLYKOTE® PG-75 Plastislip Grease
		-45 to +150	Multipurpose synthetic/ high loads/fiber reinforced	MOLYKOTE® EM-30L Grease
		-45 to +150	Multipurpose synthetic/ high loads/good adhesion	MOLYKOTE® YM-103 Grease
		-73 to +180	Wide temperature range/ low friction	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
		-35 to +250	Very high temperatures/ very good compatibility/ resistant to chemicals	MOLYKOTE® HP-870 Grease
In gearboxes	Metal to metal		Extreme loads/reduce energy	MOLYKOTE® M-55 Dispersion
			Heavily loaded, slow speed/AW/EP additives	MOLYKOTE® L-21XX Synthetic Gear Oil
			Excellent AW properties/ bronze friendly	MOLYKOTE® L-11XX Synthetic Gear Oil
			Synthetic/food grade	MOLYKOTE® L-11XX FM Synthetic Gear Oil
			Mineral oil/food grade	MOLYKOTE® L-01XX FM Gear Oil
Storage protection	Metal components		Corrosion protection/ dry film	MOLYKOTE® Metal Protector Plus

Plain bearings, bushings and sleeves



Application	Substrates	Temperature range (°C)	Other considerations	MOLYKOTE® brand solution
Pretreatment	Metal to metal	-25 to +450	Run-in lubricant	MOLYKOTE® G-Rapid Plus Paste
		-70 to +200	Solventless run-in coating	MOLYKOTE® G7400 Anti-Friction Coating
		-180 to +450	Dusty environments	MOLYKOTE® D-321 R Anti-Friction Coating
Operation	Metal to metal	-30 to +130	General purpose	MOLYKOTE® BR-2 Plus High Performance Grease
		-45 to +180	General purpose synthetic	MOLYKOTE® BG-20 Synthetic High Bearing Grease
		-30 to +150	"Clean" white grease/food grade	MOLYKOTE® G-0052 FM White EP Bearing Grease
		-40 to +230	Tacky paste/wide temperature range/water-resistant	MOLYKOTE® P-40 Grease
		-25 to +250	"Clean" white paste/food grade	MOLYKOTE® P-1900 FM Anti-Seize Paste
		-25 to +250	Prevention of fretting corrosion	MOLYKOTE® TP-42 Paste
		-40 to +150	Multipurpose synthetic/food grade	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease
		-40 to +177	Synthetic lubrication/high loads	MOLYKOTE® G-4700 Synthetic Bearing Grease
		-40 to +230	Chemical/solvent resistance	MOLYKOTE® 3451 Grease
	Plastic/rubber applications	-40 to +130	Multipurpose semi-synthetic	MOLYKOTE® PG-75 Plastislip Grease
		-50 to +140	Multipurpose synthetic	MOLYKOTE® G-2003 Paste
		-45 to +130	Multipurpose synthetic/high loads/fiber reinforced	MOLYKOTE® EM-30L Grease
		-45 to +150	Multipurpose synthetic/high loads/good adhesion	MOLYKOTE® YM-103 Grease
		-73 to +180	Wide temperature range	MOLYKOTE® 33 Light Extreme Low Temperature Grease, MOLYKOTE® 33 Medium Extreme Low Temperature Grease
		-40 to +230	Solvent resistance	MOLYKOTE® 3451 Grease
		-40 to +200	Washout resistance/low speeds	MOLYKOTE® 111 Compound
		-35 to +250	Very high temperatures/very good compatibility/resistant to chemicals	MOLYKOTE® HP-870 Grease
Storage protection	Metal components		Corrosion protection/dry film	MOLYKOTE® Metal Protector Plus

Pastes

	MOLYKOTE® brand solution		
Greaselike materials containing a very high percentage of solid lubricants. Used for assembly and lubrication of highly loaded, slow-moving parts for threaded fasteners.	MOLYKOTE® 1000 Paste MOLYKOTE® Cu-7439 Plus Paste MOLYKOTE® D Paste MOLYKOTE® DX Paste MOLYKOTE® E Paste MOLYKOTE® G-n Plus Paste	MOLYKOTE® G-Rapid Plus Paste MOLYKOTE® HSC Plus Paste MOLYKOTE® HTP Paste MOLYKOTE® M-77 Grease MOLYKOTE® P-37 Grease MOLYKOTE® P-40 Grease	MOLYKOTE® P-74 Paste MOLYKOTE® P-1600 Paste MOLYKOTE® P-1900 FM Anti-Seize Paste MOLYKOTE® TP-42 Paste MOLYKOTE® U-n Paste MOLYKOTE® X Grease Paste

Greases

	MOLYKOTE® brand solution		
Solid to semisolid materials consisting of a lubricating fluid, thickening agent and additives. Used on rolling element bearings and other moving parts.	MOLYKOTE® 41 Grease MOLYKOTE® 33 Light Extreme Low Temperature Grease MOLYKOTE® 33 Medium Extreme Low Temperature Grease MOLYKOTE® 44 Light High Temperature Grease MOLYKOTE® 44 Medium High Temperature Grease MOLYKOTE® 55 O-Ring Lubricant MOLYKOTE® 165 LT Grease MOLYKOTE® 822 M Grease MOLYKOTE® 1102 Gas Cock Grease MOLYKOTE® L-1122 FM Synthetic Gear Oil MOLYKOTE® 3451 Grease MOLYKOTE® 3452 Grease MOLYKOTE® 7348 Grease MOLYKOTE® 7514 Grease MOLYKOTE® BG-20 Synthetic Bearing Grease MOLYKOTE® BG-555 Low Noise Grease MOLYKOTE® BR-2 Plus High Performance Grease	MOLYKOTE® EM-30L Grease MOLYKOTE® EM-50L Grease MOLYKOTE® EM-60L Grease MOLYKOTE® FB 180 Grease MOLYKOTE® G-67 Grease MOLYKOTE® G-68 Grease MOLYKOTE® G-72 Grease MOLYKOTE® G-807 Low-Friction Silicone Compound MOLYKOTE® G-0050 FM White EP Bearing Grease MOLYKOTE® G-0051 FM White EP Bearing Grease MOLYKOTE® G-0052 FM White EP Bearing Grease MOLYKOTE® G-0100 Grease MOLYKOTE® G-0101 Grease MOLYKOTE® G-0102 Grease MOLYKOTE® G-1001 Grease MOLYKOTE® G-2001 Grease MOLYKOTE® G-2003 Grease	MOLYKOTE® G-4500 FM Multi-Purpose Synthetic Grease MOLYKOTE® G-4501 FM Multi-Purpose Synthetic Grease MOLYKOTE® G-4700 Extreme Pressure Synthetic Grease MOLYKOTE® High Vacuum Grease MOLYKOTE® HP-300 Grease MOLYKOTE® HP-870 Grease MOLYKOTE® Longterm 00 Grease MOLYKOTE® Longterm 2 Plus Grease MOLYKOTE® Longterm W2 Grease MOLYKOTE® Multilub High Performance Grease MOLYKOTE® PG-21 Grease MOLYKOTE® PG-54 Grease MOLYKOTE® PG-65 Plastislip Grease MOLYKOTE® PG-75 Grease MOLYKOTE® X5-6020 Grease MOLYKOTE® YM-102 Grease MOLYKOTE® YM-103 Grease

Compounds

	MOLYKOTE® brand solution
Greaselike materials of varying consistency, composed of silicone fluids and silica fillers. Used for their sealing, dielectric, non-metal-to-metal lubricating and release properties.	MOLYKOTE® 111 Compound MOLYKOTE® 4 Electrical Insulating Compound

High-performance industrial lubricating oils

	MOLYKOTE® brand solution
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.	Chain oils Compressor and vacuum pump oils Gearbox oils Hydraulic oils and multipurpose oils Special purpose oils

Coatings

	MOLYKOTE® brand solution		
"Lubricating paints"; when applied, these materials cure to form dry, solid lubricant coatings that are bonded to the surface.	MOLYKOTE® 106 Anti-Friction Coating	MOLYKOTE® 7409 Anti-Friction Coating	MOLYKOTE® D-96 Anti-Friction Coating
	MOLYKOTE® 3400A Anti-Friction Coating LF	MOLYKOTE® D-10 Anti-Friction Coating	MOLYKOTE® L-0500 Coating Spray
	MOLYKOTE® 3402C Anti-Friction Coating LF	MOLYKOTE® D-321 R Anti-Friction Coating	MOLYKOTE® Metal Protector Plus
	MOLYKOTE® 7400 Anti-Friction Coating	MOLYKOTE® D-3484 Anti-Friction Coating	MOLYKOTE® PTFE-N UV Spray
	MOLYKOTE® D-7405 Anti-Friction Coating	MOLYKOTE® D-708 Anti-Friction Coating	MOLYKOTE® S-1010 Anti-Spatter Spray

Dispersions

	MOLYKOTE® brand solution	
Finely divided solid lubricants suspended in lubricating fluids; preferred when it is necessary to apply solid lubricants in liquid form.	MOLYKOTE® A Dispersion	MOLYKOTE® MKL-N Grease
	MOLYKOTE® HTF Solid Lubricant Dispersion	MOLYKOTE® Multigliss Spray
	MOLYKOTE® M-30 Dispersion	MOLYKOTE® Omnigliss Spray
	MOLYKOTE® M-55 Dispersion	

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



About MOLYKOTE® Specialty Lubricants

Since 1948, customers around the world have trusted the MOLYKOTE® brand for performance and expertise to help solve complex, technical design and lubrication challenges. Today, our greases, compounds, pastes, dispersions, oils and fluids, and anti-friction coatings support customers' innovation, performance and sustainability needs. To learn more about our extensive product and service offering, to utilize our interactive product selection tool, or to locate a distributor, visit **molykote.com**.

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