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# MOLYKOTE®

FROM DOW CORNING

Molykote® Lubrication Solutions for Chemical and Petrochemical Industries



Molykote® Smart Lubrication™ from Dow Corning



*One of the most complete packages of solutions available.*

Synthetic Fluids • Ultra High-Purity Mineral Oils • Specialty Lubricants • Local Inventory and Technical Support

## Take the Cost Out of Your Operations.

### Total industrial lubrication

No matter what your lubrication requirements, we have the Molykote® brand lubricants and related services for the chemical/petrochemical industry to support virtually every need for your plant maintenance and repairs.

Molykote products provide cost-efficient solutions in many different applications and environments—from standard conditions to extreme temperature ranges, loads and speeds, as well as in the presence of harsh chemicals.

### Extend Equipment Life. Simplify Yours.

Improve the efficiency and reliability of your plant maintenance investments by eliminating downtime, reducing capital tied up in inventory and doing more work with greater efficiency. The Molykote® Lubrication Management Program contributes to efficiency improvements in all these areas:

- Reduce your overall maintenance costs
- Extend equipment life, improve reliability
- Streamline your purchasing process

The Molykote Lubrication Management Program consists of world-class lubricants and three distinct services that combine to meet virtually every one of your plant lubrication needs.

### One of the Most Complete Packages of Industrial Lubricants Available

During the last 60 years, Molykote has advanced from a molybdenum-based product to one of the most complete packages of industrial lubricants and fluids available. It includes low-volume specialty lubricants, high-volume fluids, and everything in between—to meet just about all your plant lubrication needs.

The product line includes our traditional offering of specialty greases, compounds, pastes, anti-friction coatings and dispersions. Many incorporate solid lubricants to reduce stress and wear in a wide variety of demanding applications with performance requirements that cannot be met by conventional lubricants. These lubricants improve reliability in a range of conditions:

- Under high pressure or in extreme temperatures
- Where you have vibration and shock loads
- In sliding surfaces operating under heavy loading; and
- During the start-up and shutdown phases of your plant, equipment and machine operations.

Our offering also includes a new line of Molykote brand Synthetic Fluids and Ultra High-Purity Mineral Oils that can last considerably longer than conventional products. They are available in a wide range of viscosities, and are formulated for use in many applications:

- Hydraulic systems
- Compressors
- Vacuum pumps
- Gearboxes
- Chains
- Extensive variety of machines and components.



## Longer Service Life

The superior performance of Molykote industrial lubricants is due to a proprietary additives package that significantly reduces oxidation rates. Oxidation, which is a result of lubricant exposure to elevated pressures and temperatures, can cause premature lubricant breakdowns. The “engineered” base chemistry of Molykote fluids makes them inherently more resistant to oxidation and emulsion than competitive products.

Our synthetic lubricants’ resistance to oxidation and other contaminants leads to several benefits:

- Longer service life
- More efficient lubrication
- Less formation of undesirable by-products in the lubricant.

Our lubricants also meet the extreme temperature requirements of just about all your applications, with products formulated for extreme cold (-200°C or -328°F) as well as products for extreme heat (1400°C or 2550°F). And our oils last longer because they maintain extremely low water content throughout their useful life.

## Reduce your Maintenance Costs

Molykote brand products can help you realize the full value of your maintenance and repair investments. We can provide a precise combination of products and/or services that you need to reduce overall maintenance costs, extend equipment life and simplify your purchasing process.

Expect no less when you specify Molykote as your preferred supplier for your lubrication products and services.

## Customer Service and Technical Assistance

You get reliable customer service and expert technical assistance from Dow Corning.

Dow Corning’s manufacturing controls and commitment to quality result in products that yield the same performance properties, minimizing production upsets caused by variations in product quality.

MACHINE ELEMENTS	TYPICAL APPLICATIONS	RECOMMENDED PRODUCTS
<b>Rolling Element Bearings</b>		
	General Purpose	BR2 Plus, Longterm 2 Plus, G-4700
	High Loads (> 3000 N Weld Load)	BR2 Plus, BG-20, 1292, HP-870
	High Temperature (> 150°C)	BG-20, 44, G-4700
	High Speed (> 250,000 Dn)	BG-20, BR2 Plus, 44, HP-870
	Water Wash-Out	Longterm 2 Plus, G-0102, G-4500,
	Chemical and Solvent Resistance	3451, HP-870, 1292
	Low Speed, Water Wash-Out	1122, P-40
Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus
<b>Gears</b>		
Running-In Operation	Running-In Lubrication	G-n Plus, G-Rapid Plus
Open Gears	General Purpose	1122, 165 LT, G-67
	Corrosion Resistance	1122, Longterm 00
	High Load (> 3000 N Weld Load)	Longterm 00, 165 LT
Closed Gears	Oil Bath or Drip Lubrication	L-0122, L-21XX
	Tacky, Semi-Fluid Grease	Longterm 00
	Fretting/ Dry Film	D-321 R, 7409, D-10
Gear Boxes	Shock or Vibration	165 LT, G-4700
	Noise Reduction, Extreme Loads (Dispersion)	M-55 Plus
Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus

MACHINE ELEMENTS	TYPICAL APPLICATIONS	RECOMMENDED PRODUCTS	
<b>Threaded Connections</b>			
Pre-Assembly	General Purpose	P-1600, P-74, G-Rapid Plus	
	White Paste	D, DX, P-1900	
	Consistant Assembly Torque	1000 Paste	
	Metal Free Paste	P-74, P-40	
	Ultra-Pure, Avoidance Of Stress Cracking	P-37	
Disassembly	Rust Loosening	Multigliss	
Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus	
<b>Chains</b>			
Greased Chains	High Speeds, Water Wash-Out	1122, P-40, MKL-N	
Dry Lubrication	Longterm Lubrication, Dusty Environment	D-321 R	
Oiled Chains	High Temps (> 175°C)	M-30, S-15XX, CO 220	
	Extreme Loads/ High MoS2 Content	M-30	
	Penetrates with MoS2	MKL-N	
	Tacky Synthetic Blend	L-1428	
	Tacky Synthetic, Low Temps (< -40°C)	L-1468FG	
Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus	
<b>Valves, Packings, Seals, O-Rings</b>			
	General Purpose	111 Compound, 55 O-Ring,	
	Extremely Low Temps (< -40°C)	55 O-Ring, HP-300	
	Extremely High Temps (> 250°C)	HP-300, HP-870	
	Chemical and Solvent Resistant	3452, HP-870, 6169	
	Oil Lubrication Of Mechanical Shaft Seal	L-0268, L-1510, L-1568	
	Valve Sealing	111 Compound	
	Valve Shaft Lubrication	D-321 R	
<b>Plain Bearings, Bushings, Sleeves</b>			
Running-In	Running-In Lubricant	G-n Plus, G-Rapid Plus,	
	White Running-In Lubricant	D Paste	
	Dusty Environment	D-321 R	
Operation	General Purpose	BR2 Plus, Longterm 2 Plus, G-4700	
	High Load (> 3000 N Weld Load)	G-4700, BR2 Plus, 3451, HP-870	
	High Speed (> 250000 Dn)	HP-870, BG-20, BG-555, BR2 Plus	
	Chemical and Solvent Resistant	3451, 1292, HP-300, HP-870	
	Vacuum Environment	HP-300, High Vaccum Grease	
	Dusty Environment	D 321 R	
	Oil Resistance/ Dry Film	7409	
	Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus
<b>Air Compressors</b>			
Bearing Grease	General Purpose	BR2 Plus, Longterm 2 Plus, G-4700	
	High Speed	BG-20, BG-555	
	Chemical and Solvent Resistance	3451, HP-300, HP-870	
Oil Lubrication	Mineral Oil	Non	
	PAO	L-1232, L-1246	
	Chemically Resistant, HCL, Methyl Chloride Exposure	L-0268	
	MO / DE Blend	L-4611	
	Synthetic, Chemically Resistant, High Temps	L-1568, L-1510	
Cleaning	Hydrocarbon Deposits	L-4611	
<b>Vacuum Pumps</b>			
Bearing Grease	See Air Compressors	See Air Compressors	
Oil Lubrication	Mineral Oil	L-0610	
	MO / PAO Blend	L-1668FG	
	Chemically Resistant, HCL, Methyl Chloride Exposure	L-0268	
<b>Ammonia Refrigeration Compressors</b>			
Oil Lubrication	R-22 or Ammonia Refrigerant	L-0660	

MACHINE ELEMENTS	TYPICAL APPLICATIONS	RECOMMENDED PRODUCTS
<b>Multi-Purpose Oils</b>		
Oil Lubrication	Air Line Lubrication, General Purpose, Hydraulic	L-0532FG
	General Purpose including Hydraulic	L-0510
<b>Diffusion Pump Fluids</b>		
Operation	Chemically Resistant, High Vacuum, Low Vapor Pressures	702, 704, 705
<b>Hydraulic Systems</b>		
Operation	General Purpose Seal Lube	111 Compound
	Chemical, Solvent Resistant Seal Lube	3452
Oil Lubrication	Mineral Oil Hydraulic Fluids	L-0532FG, L-0510
	PAO / MO Blend Hydraulic Fluids	L-1346FG, L-1368
<b>Power Screw Drives</b>		
	General Purpose	BR2 Plus, Multilub, G-4500
	High Speeds	BG-20, BG-555
	Wide Temperature Range	33 Grease
	Dusty Environments, High Load, Low Speed	D-321 R
	Chemical and Solvent Resistant	3451, HP-300, HP-870
	Vacuum Environment	HP-300, High Vacuum Grease
Storage Protection	Corrosion Protection/ Dry Film	Metal Protector Plus
<b>Slides, Guides, Tracks</b>		
Running-In	Running-In Lubrication	G-n Plus, G-Rapid Plus
Operation	General Purpose	BR2 Plus, Longterm 2 Plus, G-4500
	High Loads (> 3000 N Weld Load)	BR2 Plus, G-4700, 3451, HP-870
	High Temperature (> 150°C)	G-4700, P-40
	Extremely Low Temp (< -40°C)	33 Grease, G-4501, EM-30L
	Stick-Slip	BR2 Plus, G-n Paste, DX Paste
	Dusty Environments	D 321 R
	Non-Staining	Metalfom
<b>Shaft and Hub Connections</b>		
Running-In	Extreme Pressure Paste	G-n Plus, G-Rapid Plus
	Dry Film Lubricant	D-321 R
Operation	General Purpose Grease	BR2 Plus
	Fretting Corrosion	DX Paste, P-40
	Extreme Pressure, Water Wash-Out	Longterm 2 Plus
Storage	Corrosion Protection/ Dry Film	Metal Protector Plus
<b>Couplings</b>		
	General Purpose	BR2 Plus, G-4700
	Extreme Pressure, Water Wash-Out	Longterm 2 Plus
	Low Temperature (< -30°C)	G 4700
<b>Wire Ropes</b>		
Grease Lubrication	General Purpose	BR2 Plus, 1122
	Corrosion Protection	Longterm 00
<b>General Purpose Rust Loosener</b>		
	Rust Loosener	Multigliss, Supergliss
<b>Corrosion Protection</b>		
	General Purpose, Welded Surface	L-0500
<b>Storage Protection</b>		
	Corrosion Protection/ Dry Film	Metal Protector Plus
<b>Sealant Application</b>		
	Multi Purpose	Silicone AP, 7091
	Junction Boxes	732, 733
	High Temperature	736, Q3-1566
	Sealing of Flanges on Pipes / Pipelines	730

## Want to learn more?

To find out more about the full spectrum of solutions from Dow Corning, explore our websites at [www.molykote.com](http://www.molykote.com) or [www.dowcorning.com](http://www.dowcorning.com). You will find additional information and an easy link to contact us.

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## Molykote® Energy Savings Calculator—Reduce Costs and Emissions

Dow Corning is pleased to offer an easy-to-use, online tool that helps plant managers and industrial maintenance engineers better manage rising energy prices and carbon dioxide emissions by calculating the energy and cost savings available through lubrication best practices.

To increase reliability, lower emissions and reduce costs of your plant operations, proper lubrication is more important than ever. Molykote® lubricants from Dow Corning reduce friction to lower the amount of energy needed to operate equipment—helping the environment and saving you money.

Calculate your potential energy and CO<sub>2</sub> emissions reductions at [www.molykote.com](http://www.molykote.com).

*We help you  
invent the future.™*

**DOW CORNING**

[www.dowcorning.com](http://www.dowcorning.com)

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