

GREASES | PASTES | OILS | COMPOUNDS | DISPERSIONS | ANTI-FRICTION COATINGS

Anti-friction coatings for durable lubrication

- Service-life wear protection to minimize replacement and service costs
- Low coefficient of friction for fuel economy, emission reduction, reliability
- Reduce extraneous noise and vibration
- Resist dust and contamination



Specialty lubricants for automotive applications

- Solutions to improve energy efficiency, safety, reliability, NVH, ride comfort, durability, environmental protection
- Performance for low- and high-temperature extremes



High-performance Smart Lubrication™

High-performance solutions for

- anti-wear, noise reduction, temperature extremes
- Enhanced efficiencies to meet smart home technology, manufacturing automation, clean energy



Specialty lubricants for industrial maintenance, repair & overhaul

- Specifically formulated for severe loads, extreme speeds, harsh environments, low and high temperatures
- Extend equipment life



ASSEMBLY AND MAINTENANCE GREASES



Chain Drives
1122
MKL-N
P-40
D-321R (AFC)



Power Screw Drive
Multilube
BR2-Plus
G-4500
33L/33M



Control Cables
PG-75
33L/33M
G-4500
D-321R(AFC)



Press Fit Joints
G-Rapid Plus
G-n Plus
D
P-1900



Threaded Connections
1000
P-1900
P-37
Cu-7439 (Corrosive Envi.)



Linear Motion Guides
Multilub
LT2 Plus
BG-20
3402C (AFC)



Guides & Tracks
G-0052
P-1900
1000
G-4500/4700
G-n Plus



Gears
G-Rapid Plus
(running-in)
G-4500/4700
1122
P-40



Bushings & Sleeves
BR2-Plus
P-40
P-1900
G-0052

Press Fits
Bearings
Key ways
Pulleys
Sleeves

Molykote G-n Plus Paste
Easy assembly
Avoids Stick - Slip
Prevents fretting corrosion
Easy disassembly



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Lubrication Solutions for Industrial Applications

CHUCK PASTE

For VMC – CNC –MILLING LATHES



A mineral oil based light colored adhesive grease-paste formulated with solid lubricants offering high load-carrying capacity.

Sliding Surfaces exposed to High Pressure Loadings subject to Influence of emulsions especially for chucks on metal processing machines.

Advantages

- Particularly adhesive & Better gripping force
- Prevents stick - slip
- Good corrosion protection
- Excellent protection against galling



THREAD / ANTI -SIEZE PASTE – MOLYKOTE® 1000 / P 74

CALENDERING BEARING APPLICATION

Mineral oil based paste formulated with solid lubricants such as copper, graphite, and white solids. Offering anti-seize properties and commonly used in bolted metal joints.



- Bolted joints that are subject to harsh environments
- Injection molding machines (nozzle head screws)
- Cylinder head bolts
- Wind turbines

Advantages

- Wide temperature range
- High load-carrying capacity
- Suitable for corrosive environments
- Allows for non-destructive dismantling



Molykote® 5511 -Water tap Compound

MOLYKOTE® G-5511 Compound

Silicone-oil based with a PTFE performance thickener
Engineered for application in water taps between ceramic discs, rubber gaskets & plastic components for long term sealing & protection.



Advantages

- Molykote® G-5511 Water Tap Grease provides
- Better tackiness/adhesion properties
- Better coefficient of friction
- Certified NSF/ANSI 61
- Suitable for hot water (up to 85°C) & Cold water
- Excellent water resistance for use in Water Taps



MOLYKOTE® Lubricants for VALVE JOINTS

Molykote® 111 Compound

Silicone-based compound with a huge lubricating and sealing power. It is an excellent product for all types of joints and seals of plastic or elastomeric nature.

Molykote® 3452 Chemical Resistant Valve Grease
Fluorosilicone based grease with PTFE thickened



Advantages

- It does not harden
- Highly resistant to water washing.
- Provides great sealing power.
- Supports vacuum conditions.



Advantages

- Chemical resistance
- Good load-carrying ability
- Effective in high temperatures
- Good plastic & rubber compatibility

MOLYKOTE® HT Chain Oil (IN) – upto 230°C

Lubrication Solution for Textile Stenter,
Paint Line drag Chain & Bakery Oven Chain



Advantages

- No carbon deposition
- Low volatility & Longer life due to high oxidation Stability
- Considerably improved Viscosity – Temperature behaviour compared with conventional chain oils.
- Excellent High Temperature Stability



Lubrication Solutions for Industrial Applications



MOLYKOTE[®] Longterm 00

In Cement segment –Girth gears

NLGI Grade 00 Mineral Oil-Based Grease with Lithium Thickener and Extreme Pressure (EP) additives for Incredibly High Loads.

MOLYKOTE[®] Longterm 00 Fluid Grease is well suited for gears and gear teeth that are subjected to high stresses, frictional corrosion & moisture.

Advantages

- Extremely high load-carrying capacity
- Appropriate for mixed friction applications
- Anti-wear properties
- Resistance to galling
- Highly adhesive
- Nickel and lead free



CORRUIGATION

CALENDERING BEARING APPLICATION

Heavy duty Bearing grease for applications in presence of water and moisture especially in Calendering bearings

Water processing Watergates and sluices
Chemical industries (cooling, Condensing)
Steel mills and mining Industry

Advantages

- Excellent water resistance & Thermal Stability
- Good corrosion-preventive properties
- Extreme pressure capability



Lubricants for HOT FORGING

HTF –Dispersion & HTP PASTE

Separation and lubrication at high temperatures
Used successfully for the hot-rolling of tools and the drop-forging of taper plugs made from Ms 58.

Advantages

- High load-carrying properties
- Wide temperature range
- Extends the service life of tools.
- Formation of a separating lubricant layer between tool and machine
- The mineral oil content volatilizes at high temperatures without leaving any residue



MOLYKOTE[®] SEPARATOR SPRAY

MOLYKOTE[®] separator spray is a silicone release agent and lubricant. The spray oil is designed to give excellent release and reduces friction and wear to plastic and rubber parts.
The service temperature range is -40°C to +200°C.

Advantages

- Excellent release properties
- Provides better surface quality and easier cleaning
- Lubricates plastic and rubber parts
- Wide service temperature range



MOLYKOTE[®] D-321 R SPRAY

Aerosolized version of MOLYKOTE[®] D-321 R Anti-Friction Coating is a solvent-based, air-cured dry film lubricant for metal on metal surfaces that experience slow to medium speed movements and high loads.

- Toaster guides
- Adjustment components for car mirrors
- Cylinder-head bolts
- Running-in for highly stressed gear wheel
- High voltage switches

Advantages

- Stick slip prevention
- Aging resistance
- Air cured
- Provides excellent aging resistance.
- Suitable for high vacuum and extreme temperatures helps eliminate stick-slip occurrences



Lubrication Solutions for Automotive Applications

Powertrain

- Pistons
- Bearings
- Engine Fastener
- Starter Motors
- Air/fluid systems
- Dual-mass flywheel

Interior

- Seat adjustments
- Seat rails
- Door panels
- Safety seat belt
- Window lifter
- Consoles

Brake systems

- Pedal boxes
- Booster
- Caliper pins
- Shims
- Brake pad additives
- E-parking brake



Exterior

- Closure systems
- Sunroof systems
- Mirror adjustments
- Bolt & fastener
- Weather strips

HVAC

- Swash plate
- Pistons
- Fan clutches

Chassis

- Steering ball joints
- Steering bearings
- Suspension joints
- Suspension bearings
- Wheel bearings
- Cables



Lubrication Solutions for Paint-shop

Conveyer Chains + Over Head & Invert Trolley conveyers

Equipment	Product
Chain Capstan (Oil Lubricated)	Molykote HT Chain Oil (IN) (Upto 230 Deg C)
Chain Capstan (Grease Lubricated)	Molykote G-6000 (Upto 160 Deg C)
Chain Links (Auto Lubricated)	Molykote HT Chain Oil (IN)
Drag Line Chains (Under Ground)	Molykote Multilub T (IN)
Guide Bar slides	Molykote HP500/HP870 (Upto 250 Deg C)
	Molykote Multilub T (IN) (Upto 130 Deg C)
Pulleys Guide roller bearings	Molykote G-6000 (Upto 160 Deg C)
	Molykote HP 500/HP870 (upto 250 Deg C)
Guide Bar Slides	Molykote Multilub T (IN) (Upto 130 Deg C) Or
	Molykote D-321 R (AFC)



Challenges/Processes in Paint-shop

Application Criticalities	Steps involved in paint line
<ul style="list-style-type: none"> ▪ High Temperatures ▪ Longer Life expectancy ▪ Non-Drip Lubricant ▪ Low evaporation rates ▪ Paint Compatible / Chemical resistant lubrication material ▪ Lubricant with high oxidation stability ▪ Cost Effective Material 	<ul style="list-style-type: none"> ▪ Pretreatment: Cleaning/Degreasing ▪ Pretreatment: Surface Preparation ▪ Electrocoat – Anodic/cathodic Electrodeposition ▪ Sealer ▪ Primer ▪ Base Coat ▪ Clear coat/Top coat ▪ Baking Ovens

