

MOLYKOTE[®] LUBRICANTS FOR THE OIL & GAS INDUSTRY





Eunisell & DuPont (Molykote) partnership

Eunisell is in a strategic supply partnership with DuPont to bring Molykote® industrial lubricants to oil & gas operators across West Africa. Through this partnership, Eunisell acts as a regional supplier and technical partner, connecting DuPont's Molykote range — engineered greases, pastes, anti-seize compounds and specialty lubricants — with upstream, midstream and downstream customers who operate in demanding field conditions.

Molykote products supplied by Eunisell are specified for critical oil & gas applications including valves, choke & control systems, downhole tools, high-speed bearings, compressors, and other rotating and sliding equipment. The collaboration emphasizes solutions that withstand extreme pressure, wide temperature swings, corrosive environments and long service intervals — helping reduce downtime, extend component life and lower total cost of ownership.

Beyond product supply, the partnership delivers:

Technical support and application guidance (lubricant selection, service intervals, compatibility checks).

Local stocking and logistics to ensure timely delivery to rigs, plants and depots.

On-site training and best-practice lubrication programs for maintenance teams.

Field trials and performance monitoring to validate product benefits in specific operating conditions.

Together, Eunisell and DuPont position Molykote lubricants as a proven, high-performance option for operators seeking reliability and efficiency gains in challenging oil & gas environments.





Providing solutions to the oil & gas industry

MOLYKOTE® offers a wide range of products divided into six product categories: greases, pastes, oils, compounds, dispersions and anti-friction coatings. Within these categories, complementary specialties beyond lubricants also are included – products such as wax-based coatings for temporary corrosion protection, as well as cleaners. This broad product offering helps to streamline your purchasing process. Turn the page for an overview of how these six categories of products can help solve a variety of challenges across the oil and gas industry

Oil & Gas Solutions

MOLYKOTE® GREASES

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

- **BR-2 Plus High Performance Grease:** For general applications; contains solid lubricants, such as MoS₂
- **HP-870 Grease & HP-300 Grease:** Chemical-resistant; extraordinary performance under extreme conditions
- **Longterm 2 Plus Extreme Pressure Bearing Grease:** Prevents fretting corrosion, groove formation (false brinelling), moisture ingress
- **G-4700 Extreme Pressure Synthetic Grease:** For general applications with moderate loads & high speeds; long-lasting; contains MoS₂ & other solid lubricants; black
- **3451 Chemical Resistant Bearing Grease & 3452 Chemical Resistant Valve Lubricant:** Chemical-resistant greases
- **1122 Chain and Open Gear Grease:** Synthetic; contains solid lubricants
- **BG-20 Synthetic Bearing Grease:** Wide service-temperature range; suitable for high speeds & high-temperature/high-load applications
- **33 Medium Extreme Low Temperature Grease:** For use under a wide range of temperature conditions; for light-load applications at low to high speeds.

Applications

Bearings, motors, gears, valves, shafts, slides, conveyor systems, high/low temp, food grade/water contact, chemical & fluid resistance

Oil & Gas Solutions



Oil & Gas Solutions

MOLYKOTE® PASTES

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

- **P-1042 Adhesive Grease Paste:** For sliding surfaces exposed to high-pressure loadings; fortified with solid lubricants; excellent water-washout resistance & corrosion protection; light-colored
- **P-40 Paste V1:** For assembly & continuous lubrication jobs, particularly those exposed to corrosive environments (e.g., splash water, humidity)
- **G-Rapid Plus Paste:** For assembly & running-in of metallic components (e.g., press-fits); particularly low friction coefficient; black
- **G-N Plus Paste:** Protects against fretting corrosion & stick-slip for continuous lubrication of metallic components; black
- **1000 Paste:** Thread paste for use in high-temperature & corrosive environments; black
- **P-74 Assembly Paste:** For a wide variety of threaded connections, sliding contact bearings, linear sliding guides, spline shafts, flanges, seals; metal-free
- **P-3300 Paste:** Hazard-free thread paste with good corrosion resistance; white
- **P-3700 Anti-Seize Paste:** Ultrapure, high-temperature-resistant thread paste for gas & steam turbines; no Cr(VI) formation, even after long-term high-temperature exposure on chromium-containing steel

Applications

Threads, high temp/alloys, assembly/run-in, anti-fretting

Oil & Gas Solutions



Oil & Gas Solutions

MOLYKOTE® OILS

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.

- **L-1510 Process Gas Oil:** ISO 100; synthetic; intended for use in compressors or vacuum pumps handling corrosive gas (e.g., hydrogen chloride, methyl chloride)
- **L-1605FM Synthetic Barrier Fluid:** ISO 5; PAO-based; contains no additives; H1-certified through NSF for incidental food contact
- **L-1210 Synthetic Compressor and Vacuum Pump Oil:** ISO 100; PAO-based; contains an additive package that inhibits rust, oxidation, corrosion
- **L-0268 Process Gas Oil:** ISO 68; mineral-oil-based; contains a corrosion inhibitor additive; not for oxygen-rich environments
- **L-1568 Process Gas Oil:** ISO 68; synthetic; intended for use in compressors or vacuum pumps handling corrosive gas
- **L-1668FM Synthetic Blend Vacuum Pump Oil:** ISO 68; mineral oil/PAO blend; contains an additive package that inhibits rust, oxidation, corrosion; H1-certified through NSF for incidental food contact

Applications

Specialty process oils, penetrants, barrier fluids, compressor & vacuum pump oils, synthetic chain & gear oils, extreme-pressure additives

Oil & Gas Solutions



Oil & Gas Solutions

MOLYKOTE® COMPOUNDS

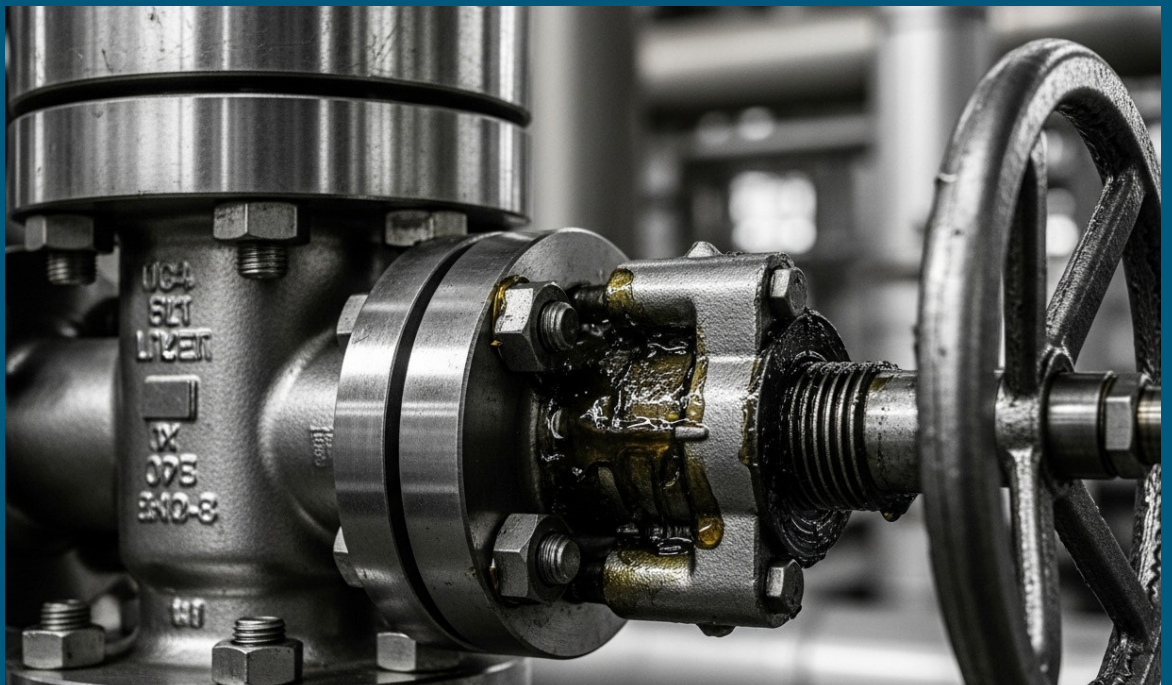
Grease-like materials composed of silicone fluids and silica fillers. Used for their sealing, dielectric, nonmetal- to-metal lubricating properties.

- **111 Compound:** Valve lubricant & sealant; O-ring lubrication; carries specific specifications/approvals
- **High Vacuum Grease:** For seals & chemical-processing equipment (valves); stiff; non-melting; water-resistant; silicone-based
- **3099 HVIC Compound:** Grease-like; offers a protective coating to electrical insulators; provides a high level of flashover resistance under high-voltage stress conditions
- **4 Compound:** For seals & chemical-processing equipment; semi-flowable; excellent dielectric strength & electrical insulating properties.

Applications

Plastic/metal, rubber/metal, O-rings, release agent, moisture barrier, dielectric, food grade/ water contact

Oil & Gas Solutions



Oil & Gas Solutions

MOLYKOTE® DISPERSIONS

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

- **M-55 Plus Dispersion:** Solid lubricants in mineral oil; used as additive for mineral oils to increase lubrication performance (e.g., load carrying capacity); black
- **Metalform Wax Solution:** For forming operations at metals to extend tool life; transparent
- **Metal Cleaner Spray:** Solvent to clean & degrease parts, including brakes, clutches, engine components, electrical contacts, various other metal parts & surfaces
- **L-0500 Protective Zinc Coating Spray:** For protection of blank metal surfaces & drilling & welding points; for repair of damaged galvanic surfaces; corrosion protective primer for all types of paints
- **MKL-N Dispersion:** Grease with solid lubricants dispersed in solvent to lubricate chains & provide corrosion protection
- **Multigliss Dispersion:** Rust remover; simplifies dismantling
- **S-1002 Electrical Contact Cleaner Spray:** For reducing electrical resistance of electrical & electronic equipment; fast evaporating; no residue
- **Metal Protector Plus:** Wax solution to protect metal parts against corrosion during storage or transport

Applications

Semi-dry lubricants, release agents, sliding contacts, extreme-temp chains, conveyors

Oil & Gas Solutions



Oil & Gas Solutions

MOLYKOTE® ANTI-FRICTION COATINGS (AFCs)

“Lubricating paints”; when applied, form dry, solid lubricant coatings that are bonded to the surface.

- **D-321 R Anti-Friction Coating:** Air-cure dry-film lubricant suitable for high loads & maintenance applications; also available as spray
- **D-7409 Anti-Friction Coating:** Heat-cure dry-film lubricant with excellent wear resistance at high pressures; provides chemical resistance
- **D-6600 Anti-Friction Coating:** Heat-cure dry-film lubricant with excellent lubrication properties, especially for low & medium surface pressures
- **D-708 Anti-Friction Coating:** Heat-cure dry-film coating; provides corrosion protection; nice black finish
- **3400A Anti-Friction Coating LF:** Heat-cure dry-film lubricant with good heat resistance & corrosion protection
- **D-3484 Anti-Friction Coating:** Fast-heat-cure dry-film lubricant with excellent lubrication properties at high loads
- **3402-C LF Anti-Friction Coating:** Air-cure dry-film lubricant with good corrosion protection
- **106 Anti-Friction Coating:** Heat-cure dry-film lubricant with excellent lubrication properties at high loads

Applications

Durable dry film for metal/metal, metal/plastic, plastic/plastic interfaces; heavy load; paintlike; corrosion protection

Oil & Gas Solutions



Springs

MOLYKOTE® D-321 R Anti-Friction Coating
MOLYKOTE® D-3484 Anti-Friction Coating
MOLYKOTE® D-7409 Anti-Friction Coating

*Friction reduction to eliminate stick-slip
and increase efficiency*



Valves

MOLYKOTE® D-7409 Anti-Friction Coating

*Operating efficiency; eliminates stick-slip;
high chemical and fluid resistance*

Applications



Applications of MOLYKOTE® Lubricants in the oil & gas industry

Whether the application is in the upstream, midstream or downstream segment, MOLYKOTE® Specialty Lubricants are used successfully across the entire oil and gas industry. Some common applications are highlighted on pages 17 to 20.

Applications

Valves



Valves exist in all three segments, but different valves require different lubricants, depending on the type of service. In upstream and midstream segments, resistance against H₂S might be critical. Downstream in the petrochemical industry, further resistance against additional harsh chemicals is needed to enable smooth, long-lasting operation.

Applications

MOLYKOTE Solutions for Valves

Valve Components						
	Set Rings	O-Rings	Plugs	Stems	Actuators	Fasteners
Application	Seat ring of ball valves (highlighted in black)	Elastomer O-rings used in all types of valves	Plug of plug valves	Stems of balls, gate & choke	Gearbox	Fasteners in all valves
Function of Lubricant	Reduce friction wear to improve sealing performance	Assembly aid to reduce risk for micro-cracks & improve sealing performance	Reduce friction & wear to enable smooth operation	Reduce friction & wear to enable smooth operation	Reduce friction & wear to increase lifespan of gears	Provide proper tightening torque to ensure sealing performance; anti-seize performance to enable smooth maintenance
Recommended Lubricants	MOLYKOTE® D-321 R Anti-Friction Coating	Standard: • MOLYKOTE® 111 Compound • MOLYKOTE® 55 O-Ring Grease Harsh chemical environment: • MOLYKOTE® 3452 Chemical Resistant Valve Lubricant Temperatures above 150°C & FFKM seal: • MOLYKOTE® G-5008 Dielectric Grease	Standard: • MOLYKOTE® 111 Compound Harsh chemical environment: • MOLYKOTE® 3452 Chemical Resistant Valve Lubricant • MOLYKOTE® 3400A Anti-Friction Coating LF • MOLYKOTE® 106 Anti Friction Coating	Housed stem – standard: • MOLYKOTE® G-Rapid Plus Paste Housed stem – harsh chemical environment: • MOLYKOTE® 6169 Grease Stem without housing in dusty environment: • MOLYKOTE® D-321 R Anti Friction Coating	•MOLYKOTE® Longterm 2 Plus Extreme Pressure Bearing Grease	Standard: • MOLYKOTE® 1000 Paste Sustainable solution: • MOLYKOTE® P-3300 Paste

Applications

Flanges & downhole equipment



Flanges and downhole equipment represent another field of applications within the oil and gas industry that require specialty lubricants to provide long-lasting performance.

Applications

Flange Components			Downhole Equipment Components		
	Seals	Threaded Connections	Bearings	Seals	Threaded connections
Application	• Metal seal/gasket • Elastomer seal	• Threads of standard flanges • Threads of over-the-pipe connections • Threads of subsea clamp connectors	• Bearings in drilling bits • Thrust bearings in mud motors/electric submersible pump	• Elastomer seals in drilling bits • Elastomer seals in packers • Elastomer seals in logging & sidewall coring tools	Threads of tools/pipes
Function of Lubricant	All seals: Simplify assembly Metal seal: Enable reuse of metal seal ring Elastomer seal: Reduce risk for cracks; improve sealing performance	Provide proper tightening torque to ensure sealing performance; anti-seize performance to enable	Reduce friction & wear to increase bearing lifetime; reduce relubrication intervals	Simplify assembly; reduce risk for crack formation; improve sealing performance	Pastes: Provide proper tightening torque; anti-seize performance to enable smooth maintenance Anti-friction coatings: Same as pastes, plus multiple tightening without relubrication
Recommended Lubricants	Metal seal: • MOLYKOTE® D-321 R Anti-Friction Coating • MOLYKOTE® P-3700 Anti-Seize Paste • MOLYKOTE® P-1042 Adhesive Grease Paste Elastomer seal – standard: • MOLYKOTE® 111 Compound • MOLYKOTE® 55 O-Ring Grease Elastomer seal – harsh chemical environment: • MOLYKOTE® 3452 Chemical Resistant Valve Lubricant	Threads in normal environment: • MOLYKOTE® G-Rapid Plus Paste Subsea threads – clamp connectors: • MOLYKOTE® 3400A Anti Friction Coating LF • MOLYKOTE® P-40 Paste V1 Threads in refineries: MOLYKOTE® 1000 Paste	Bearings in drilling bits: • MOLYKOTE® 165 LT Gearwheel Grease • MOLYKOTE® X Grease Paste Thrust bearings in mud motors/electric submersible pump: • MOLYKOTE® D-7409 Anti Friction Coating • MOLYKOTE® D-6818 Anti Friction Coating	All seals: • MOLYKOTE® 111 Compound • MOLYKOTE® 55 O-Ring Grease	Pastes: • MOLYKOTE® P-37 Paste • MOLYKOTE® P-74 Assembly Paste Anti-friction coatings: • MOLYKOTE® 3400A Anti Friction Coating LF • MOLYKOTE® D-6600 Anti Friction Coating

Packaging options



- Drums for automated dispensing systems.
- Cartridges for grease guns.
- Cans equipped with brushes for precise lubrication of small areas.
- Aerosols to quickly lubricate large surface areas.



About Us

Eunisell is a leading chemical and specialty fluid management company, supplying key products and solutions to a wide base of customers operating in Africa.

Our mission is to bring world class solutions to this vibrant and challenging environment.

Our vision is to become the foremost provider of chemical solutions in Africa. As Africa's leading specialty chemicals supplier and one of the it's largest independent companies, we are committed to excellence and innovation.

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