

**MOLYKOTE®**

**DUPONT™**

# **MOLYKOTE® lubrication solutions for mining applications**



## Extreme lubricants for extreme conditions

Where ordinary lubricants fail, DuPont offers a specially formulated line of extreme-load MOLYKOTE® Specialty Lubricants for open-cast mining customers.

Modern open-pit mining requires the use of large mechanical equipment that can perform reliably in demanding environments. Because of the heavy load capacities and possible extremes of environments in open-cast mining operations, lubricants should offer special properties, such as:

- Protection from extreme environments (heat and cold)
- Performance in dusty environments
- Heavy load capacity
- Ability to meet OEM specifications
- Environmental friendliness
- Minimal product leakage from machine to environment

MOLYKOTE® brand lubricants resist squeeze-out, fling-off and water washout to extend equipment life and reduce unwanted downtime and maintenance costs. Less lubricant is needed to maintain superior performance, which increases productivity while saving energy and money for mining industry customers.



## Solutions for the mining industry

Through innovative technology and a wide range of products, DuPont is able to provide solutions that are environmentally friendly and safe and result in faster, more efficient operations for customers in the mining industry.

MOLYKOTE® offers expertise and technical know-how, combined with trusted partnerships, to ensure that you have access to necessary supplies and products in a timely and reliable manner – all backed by a solid reputation of proven performance and innovation.

Our functionality testing, application engineering and equipment/material integration provide you with a total systems solution. DuPont's diverse product range and engineering expertise offer several advantages over competitive products and services:

- **Longer equipment life:** DuPont products and services extend equipment life by reducing wear and damage to equipment.
- **Reduced contamination:** Our solid lubrication, gasketing and sealing solutions resist erosion and minimize dust to keep equipment running smoothly.
- **High performance in all types of weather:** Specially formulated products maintain proper viscosity at high and low temperatures, helping to prevent rust and corrosion – even in high-humidity conditions.
- **Equipment availability and productivity:** High-quality products that deliver reliable results, our solutions ensure new levels of equipment reliability that can reduce service costs and increase long-term safe use.
- **Highly reliable products:** We offer a wide selection of products for all desired applications, helping you make the right decision the first time.
- **Trusted service:** We work with leading companies to ensure that the most applicable procedures are implemented to best meet customer needs. By developing and training lubrication experts, top-notch service results are best achieved.
- **Sustainable performance:** Our products help meet environmental and sustainability imperatives, reducing energy and material usage, waste, and maintenance. We offer product options with hazard-free labels.





## MOLYKOTE® lubricants protect equipment

MOLYKOTE® brand lubricants are used for a wide range of mining applications. Our high-performance lubricants provide protection from shock-loading, reversing speeds and surging pressures to extend part and equipment life.

Application	Element to lubricate	MOLYKOTE® product recommendation(s)
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### Open-cast mining

<b>Excavators</b>	Open gears	1122 Chain and Open Gear Grease; 1122 Chain Grease Spray P-1042 Adhesive Grease Paste
	Electrical contacts; insulators; electrical boxes	5 Compound
		7 Release Compound
		111 Compound 3099 HVIC (High-Voltage Insulator Coating) Compound
<b>Mining trucks</b>	Wheel bearings	G-4700 Extreme Pressure Synthetic Grease BR-2 Plus High Performance Grease
	Gearboxes	L-xxxx Synthetic Oil Series
		M Gear Oil Additive
		M-55 Plus Dispersion
<b>Front loaders</b>	Bearings; pins; bushes	BR-2 Plus High Performance Grease
		Longterm 2/78 G Grease
		Multilub Synthetic High Performance Grease
<b>Conveyor belts</b>	Bearings	Longterm 2 Plus Extreme Pressure Bearing Grease BR-2 Plus High Performance Grease
	Gearboxes	L-xxxx Synthetic Oil Series
		M Gear Oil Additive
		M-55 Plus Dispersion
<b>SAG/ball mills, furnaces</b>	Jacket or liner bolts	P-74 Assembly Paste
	Feed seal/chute	111 Compound
	Guides	D-321 R Anti-Friction Coating; D-321 R Anti-Friction Coating Spray
	Bearings	Longterm 00 Semi-Fluid Gearbox Grease
G-4700 Extreme Pressure Synthetic Grease		

### Repair shops

	Assembly/disassembly	Multigliss Dispersion
		1000 Paste
		G-N Paste Metal Assembly Paste; G-N Metal Assembly Spray
	O-rings; valve seals in general	55 O-Ring Grease 111 Compound
	Couplings	Longterm 2 Plus Extreme Pressure Bearing Grease
	Metal cleaning/protection	Metal Cleaner Spray
		Metal Protector Plus

### Electric equipment

<b>Electric motors</b>	Bearings	G-0010 Grease BG-20 Synthetic Bearing Grease
	Cleaning of electrical contacts, cards, boards	S-1002 Electrical Contact Cleaner Spray

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Application	Element to lubricate	MOLYKOTE® product recommendation(s)
<b>Underground mining</b>		
Fans, blowers, pumps	Bearings	BR-2 Plus High Performance Grease
		G-0010 Grease
		BG-20 Synthetic Bearing Grease
Transportation equipment	Pins; bearings	Longterm 2 Plus Extreme Pressure Bearing Grease
		BR-2 Plus High Performance Grease
		Multilub Synthetic High Performance Grease
Pulleys and winches	Bearings	BR-2 Plus High Performance Grease
		Longterm 2 Plus Extreme Pressure Bearing Grease
		Longterm 2/78 G Grease
		Multilub Synthetic High Performance Grease
Maintenance products	Chains	D-321 R Anti-Friction Coating; D-321 R Anti-Friction Coating Spray
		MKL-N Dispersion Spray
		1122 Chain and Open Gear Grease; 1122 Chain Grease Spray

### Air compressors

Screw compressors (rotary)	Screw	L-12xx Synthetic Compressor Oil Series
		L-3246 Synthetic Compressor Oil
		L-4646 Synthetic High Temp Compressor Oil
Piston compressors (reciprocating)	Pistons	L-4610 Synthetic Blend Compressor Piston Oil
		L-4611 Synthetic Reciprocating Compressor Oil

## About MOLYKOTE® Specialty Lubricants

For more than 70 years, customers around the world have trusted the MOLYKOTE® brand for performance and expertise to solve or prevent virtually any lubrication problem and to save energy. Available through a global network of more than 3,000 channel partners, MOLYKOTE® brand lubricants – which include well over 500 anti-friction coatings, compounds, dispersions,

greases, oils and fluids, and pastes – serve the automotive market and industrial/maintenance, repair and overhaul (MRO) markets. To learn more about our extensive product and service offering or to locate a distributor, visit [molykote.com](http://molykote.com).



## Contact us

MOLYKOTE® has Contact Centers around the globe. Find the phone number for the center nearest you at [www.dupont.com/molykotecontact](http://www.dupont.com/molykotecontact).



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