

Molykote® Brand and Dow Corning® Brand Solutions for Sugar Mills

AREA/ COMPONENT	MOLYKOTE® OR DOW CORNING® BRAND SOLUTION	TEMPERATURE RANGE (°C)	KOSHER/FOOD REGULATORY STATUS	NOTES
Discharge/ Crane cables	Molykote® Longterm 00 Fluid Grease	-40° to 110°		All three products contain MoS ₂ for high load-carrying capacity. They help mitigate crane cable stretching and rupture due to corrosion.
	Molykote® 165 LT Gearwheel Grease	-25° to 120°		
	Molykote® 1122 Chain and Open Gear Grease	0° to 160°		
Discharge/ Gear with flat teeth inside the crane cabin	Molykote® 1122 Chain and Open Gear Grease	0° to 160°		Products deliver excellent performance under high load and in moist, corrosive environments.
	Molykote® P-40 Metal-Free Adhesive Lubricating Paste	-40° to 230° (paste); -40° to 1200° (solids)		
Discharge/ Metal conveyor belt subjected to high loads and wear on bearings and roller-support guides	Molykote® G-1502 FG Synthetic Bearing and Gear Grease	-40° to 149°	NSF H-1	These products have excellent water wash-out properties, good adhesion, good corrosion protection and antifretting characteristics.
	Molykote® P-40 Paste	-40° to 200°		
Discharge/ Grinder bearings	Molykote® BR-2 Plus High Performance Grease	-30° to 130°		Lubrication interval: once per crop. Load: very high/impact loads. Hammer weight: ~8 ton. They are available in mineral and synthetic versions.
	Molykote® G-4700 Extreme Pressure Synthetic Grease	-40° to 177°		
Discharge and sugar mills/ Ball bearings	Molykote® G-0102 High Load Bearing Grease	-25° to 140°		Use Molykote® G-0102 High Load Bearing Grease for highly loaded bearings in water/steam-contaminated environments.
Sugar mills/ Open gears	Molykote® 165 LT Gearwheel Grease	-25° to 120°		These two greases have very good performance in gearwheels. They are ideal for open gears exposed to high environmental pollution, offer very good adhesion, and prevent wear with excellent anti-corrosion properties.
	Molykote® 1122 Open Gear Grease	0° to 160°		
Sugar mills/ Gearbox	Dow Corning® M Gear Oil Additive			Adding 5% of Dow Corning® M Gear Oil Additive forms a protective layer that provides excellent resistance to high loads, extending the useful life of the gears.
Centrifuge/ Centrifuge bearings (food grade)	Molykote® G-4500 Multi-Purpose Synthetic Grease	-51° to 163°	Kosher and Pareve NSF H-1	Molykote® G-4500 Multi-Purpose Synthetic Grease provides excellent wear resistance under moderate loads and high speeds at temperatures up to 150°C, and it is suitable for use where incidental food contact is possible.
Centrifuge and drying/ Food grade chains	Molykote® G-4500 Multi-Purpose Synthetic Grease	-51° to 163°	Kosher and Pareve NSF H-1	Molykote® G-4500 Multi-Purpose Synthetic Grease is a synthetic grease containing extreme pressure additives for use on food manufacturing equipment. It offers good penetration in chains, good load-carrying capacity, and good corrosion protection. Molykote® L-0460FG mineral oil contains anti-corrosion and anti-wear additives, and is suitable for use on alimentary grade chains. Molykote® L-1468FG Synthetic Freezer Chain Oil is a synthetic version of Molykote® L-0460FG mineral oil.
	Molykote® L-0460FG Chain Oil		Kosher and Pareve NSF H-1	
	Molykote® L-1468FG Synthetic Freezer Chain Oil		Kosher and Pareve NSF H-1	
Drying/Drying tire	Molykote® G-n Plus Paste	-25° to 450°		Molykote® G-n Plus Paste, containing solid lubricants, is excellent for reducing friction and wear in high-load and low-speed applications with extended relubrication intervals. Molykote® Longterm 00 Fluid Grease is a semi-fluid grease well suited for lubricating trays.
	Molykote® Longterm 00 Fluid Grease	-40° to 110°		
Drying/ Drying gear with flat teeth	Molykote® 165 LT Gearwheel Grease	-25° to 120°		Formulated with tackifiers, corrosion inhibitors, and extreme pressure (EP) additives, Molykote® 165 LT Gearwheel Grease offers very good protection against wear, porosity and corrosion in highly loaded gears. Thanks to its MoS ₂ solid lubricants, Molykote® Longterm 00 Fluid Grease protects elements under high loads and frequent impacting from adhesive and abrasive wear, to reduce pitting.
	Molykote® Longterm 00 Fluid Grease	-40° to 110°		
Drying/Reducers with food grade oil	Molykote® L-1368FG Synthetic Blend Hydraulic Oil		Kosher and Pareve NSF H-1	Food grade oils are required in drying areas due to incidental food contact potential. Molykote® L-1368FG oil, ISO 68; Molykote® L-0122FG mineral oil; Molykote® L-1122FG synthetic oil, ISO 220; and Molykote® L-1146FG oil, ISO 460 are recommended in these areas.
	Molykote® L-0122FG Gear Oil		Kosher and Pareve NSF H-1	
	Molykote® L-1122FG Synthetic Gear Oil		Kosher and Pareve NSF H-1	
	Molykote® L-1146FG Synthetic Extreme Temperature Gear Oil		Kosher and Pareve NSF H-1	
Boilers/Fan ball bearings	Molykote® G-4700 Extreme Pressure Synthetic Grease	-40° to 177°		Fan blade bearings are subjected to high loads and abrasive wear. Molykote® G-4700 Extreme Pressure Grease is fortified with MoS ₂ and other solid lubricants to enhance its load-carrying capacity at high speeds.
Sugar mills and energy plant/ Nuts and bolts in turbines	Molykote® P-37 Antiseize Paste	-30° to 1500°		Molykote® P-37 Antiseize Paste is an ultra pure, high temperature, metal-free lubricating paste for threaded connections. Its ultra low sulfur and halogen content helps prevent solder embrittlement and stress corrosion cracking in heat-resistant steels subjected to high temperatures. It is used successfully on threaded connections of gas and steam turbines, and thermal plants reaching 1400°C to aid in non-destructive disassembly of threaded connections.
Energy plant/ Anti-seize nuts and bolts	Molykote® 1000 Paste	-30° to 650° (solids) -40° to 120° (oil)		Molykote® 1000 Paste is a high temperature anti-seize paste. It contains solid lubricants designed to lubricate threaded connections exposed to aggressive environments. The paste provides consistent coefficient of friction to ensure consistent and accurate torquing of threaded connections during assembly, and has excellent sealing properties to resist corrosion to aid in non-destructive disassembly end-of-crop, resulting in savings in new threaded connections and cutting equipment.

AREA/ COMPONENT	MOLYKOTE® OR DOW CORNING® BRAND SOLUTION	TEMPERATURE RANGE (°C)	KOSHER/FOOD REGULATORY STATUS	NOTES
Packaging/ Reducers with food grade oil	Molykote® L-1368FG Synthetic Blend Hydraulic Oil		Kosher and Pareve NSF H-1	If oil may incidentally come in contact with food in the packaging area, food grade oils are required. Molykote® L-1368FG oil, ISO 68; Molykote® L-0122FG oil; Molykote® L-1122FG oil; and Molykote® L-1146FG oil are recommended.
	Molykote® L-0122FG Gear Oil		Kosher and Pareve NSF H-1	
	Molykote® L-1122FG Gear Oil		Kosher and Pareve NSF H-1	
	Molykote® L-1146FG Gear Oil		Kosher and Pareve NSF H-1	
General/ Nuts and bolts in brackets	Molykote® G-Rapid Plus Solid Lubricant Paste	-35° to 450°		Molykote® G-Rapid Plus Solid Lubricant Paste has very low friction and helps protect against corrosion and oxidation of flange coupling screws, preventing the need to cut screws at the end of the harvesting season, resulting in savings in new threaded connections and cutting equipment.
General/ O-rings and seals	Dow Corning® 111 Valve Lubricant & Sealant	-40° to 204°	NSF H-1	Vapor leakage through flanges, valves and seals due to O-ring failures is very common, since steam and high temperatures can damage elastomers. Dow Corning® 111 Valve Lubricant is a thermally and chemically stable compound, compatible with most elastomers, that provides an excellent barrier against both moisture and oxidation at temperatures up to 200°C.
General/ Sealant	Dow Corning® 832 Multi-Surface Adhesive/Sealant	-62° to 204°		Dow Corning® 832 Multi-Surface Adhesive/Sealant is an alcohol cure system, non-corrosive, excellent adhesion, for use on flanges, seals and pumps. Dow Corning® 730 Solvent Resistant Adhesive/Sealant is a silicone sealant suitable for use where there is contact with solvents and chemical agents. Dow Corning® 736 Heat Resistant Sealant is an acetoxy cured silicone sealant that is highly temperature resistant (intermittent 315°C). It is recommended for sealing joints, oven and boiler valves, filters and pipelines.
	Dow Corning® 730 Solvent Resistant Adhesive/Sealant	-65° to 260°		
	Dow Corning® 736 Heat Resistant Sealant	-65° to 204°	NSF H-1	
General/ Corrosion inhibitor	Molykote® Metal Protective Coating			At the crop end there are many worn, corroded or rusted equipment parts. Molykote® Metal Protective Coating is a dry lubricant that provides an excellent protective barrier for extended periods in corrosive environments.
General/ Penetrating agents	Molykote® L-0501 High Performance Penetrating Lubricant			Molykote® L-0501 High Performance Penetrating Lubricant offers significant advantages over multipurpose penetration lubricants, including very good protection against corrosion and excellent anti-wear attributes (Four Ball Test). Molykote® Food Grade Spray Oil is a FG option.
	Molykote® Food Grade Spray Oil		NSF H-1	
General/ Rotofilter	Molykote® G-n Plus Paste	-25° to 450°		When used on rotofilters, Molykote® G-n Plus Paste will extend the useful life of the equipment, protecting it against wear.
General/ Chains	Molykote® MKL-N Dispersion	-25° to 160°		Molykote® MKL-N Dispersion has very good penetration and water resistance and helps prevent wear inside the cylinder, with good water resistance. Molykote® 1122 grease is designed for chains exposed to large amounts of water and steam. It contains MoS ₂ to protect from metal-to-metal contact wear in applications like the cane transport to the shredding machine to the bagasse transportation to the boilers.
	Molykote® 1122 Chain and Open Gear Grease	0° to 160°		
General/ Pretreatment of gears and couplings	Molykote® G-n Plus Paste	-25° to 450°		To protect gears and couplings, a pretreatment with Molykote® G-n Plus Paste is recommended before starting the crop. A thin film is enough to protect gear sides. In the load zone Molykote® G-n Plus Paste helps prevent early pitting and tooth damage.

CONTACT DOW CORNING

Dow Corning has sales offices, manufacturing sites, as well as science and technology laboratories around the globe. For more information, please visit dowcorning.com for addresses and phone numbers of locations in your geography. Or send us an e-mail at dowcorning.com/ContactUs.

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