
Sugar

*Customized Range of
Specialised Lubricants
for Sugar Industry*





Robust lubricants for continuous crushing operation in Sugar Industry.

The sugar mill has various lubrication challenges. The product may be sweet, but the manufacturing conditions can be especially harsh. High loads, water, dust, and humidity, play an important part in how lubricants perform.

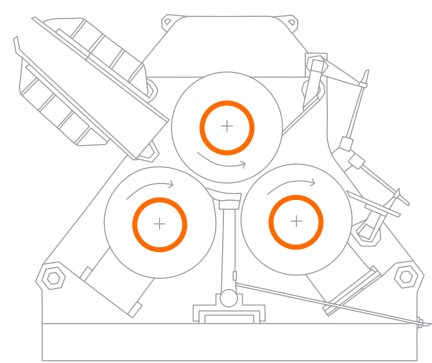
Our lubricants have been formulated to the highest standards, using the latest chemistries and additive technologies, which results in prolonged life of the equipment, reduced wear, and excellent adhesion. Molygraph range of journal and brass bearing greases, open gear lubricants, synthetic gear oils, and a range of MRO products have been the mainstay for sugar mills the world over. *The quality and performance of our products have increased productivity and efficiency in sugar mills, while drastically reducing maintenance downtimes & relubrication intervals.*

Our Field engineering team has been specially trained to help operators choose the right lubricant for their needs.

OPERATING CONDITIONS

- | | |
|---------------------|-------------------------------------|
| ➤ High temperature | ➤ Excessive wear |
| ➤ High vibrations | ➤ Water ingress & harsh environment |
| ➤ Heavy shock loads | |

Featured Products



 Lubrication Point

SMG PREMIUM

Pumpable, tacky and heavy duty grease designed for journal bearing lubrication.



Crushers are commonly used in the sugar industry to crush sugar cane and extract juice from the cane. The bearings in a crusher are subject to significant wear and tear during operation, and proper lubrication is essential to maintain the efficiency and lifespan of the equipment.

It's important to use lubricants that are specifically designed to withstand the harsh conditions encountered in the sugar industry. For example, sugarcane juice is sticky and can easily contaminate the lubricant. In addition, the high-temperature environment of a crusher can cause the lubricant to break down more quickly.

Key Features:

- SMG Premium is a sprayable tacky grease which ensures adhesion to the crushers.
- Has the ability to be pumped through a centralized lubrication system.
- Specially chosen solid lubricant additives to minimize wear and reduce relubrication intervals.

Molygraph with years of grease manufacturing experience supplemented with advanced tribological testing facilities have formulated SMG Premium to counter the sugar mill grease challenges.

CHALLENGES OF A MILL GREASE	MOLYGRAPH SMG PREMIUM
Loads & shear stability due to severe pressure on the rolls of sugarcane juice extractor	SMG Premium designed with a relatively high base oil viscosity, chosen EP & AW additives, not only withstand high pressure but also helps forming a uniform lubricating film avoiding any kind of wear to bearing material resulting in mis-alignment due to excessive wear. This high base oil viscosity also helps reduce frictional & power losses.
Cracks & burn marks on bearings	SMG Premium is reinforced with high content of solid lubricant to avoid boundary lubrication and provide emergency lubrication to prevent damage and burn marks due to shock loads during mill operations.
Water resistance and aggressive environment	SMG Premium designed with an appropriate thickener, water & acid resident additives to help counter water washout and corrosion. Provides resistance to acidic base of the sugarcane juice.
Grease pumpability	<p>SMG Premium special complex soap providing good pump ability to avoid choking of lines, filters and fitments in grease pumping system and resist interrupted or inadequate flow causing lack of lubrication to the required grease wetting areas.</p> <p>No air locks and thus no forced pumping. Grease has been validated in-house with reputed brands pf grease dispensing systems for its pumping ability.</p>

Product Selector

PROCESS	APPLICATIONS	FEATURES & BENEFITS	PRODUCT
Cane kicker / Levellor / Fibrizor	Bearings	High performance EP moly grease for medium loads.	BRB 30
		High performance PTFE fortified grease that reduces heat build up and resists water washout.	TFG 100
Milling	Journal Bearing	Extremely robust water resistant grease fortified with EP & AW additives to perform in extreme load applications & harsh environments.	SMG PREMIUM
	Open Gears	Open gear grease with high purity graphite and specially chosen extreme pressure additives that help prevent excessive wear, squeeze out & ratio change. Withstand shock loads and pressures.	OGG 2500
	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
		NSF-H1, Halal & Kosher certified food grade grease for a wide temperature range.	SAFOL™ FGG
Juice heater / Sulphiter / Clarifie / Evaporator	Bearings	NSF-H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL™ FGG
	Gearboxes	NSF-H1, Halal & Kosher certified high performance food grade synthetic gear oils capable of operating under a high load carrying environment.	SAFOL™ GEAR OIL
Centrifugal M / C	Bearings	NSF-H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL™ FGG
Hopper & Drier	Open Gears	Open gear grease with high purity graphite and specially chosen extreme pressure additives that help prevent excessive wear, squeeze out & ratio change. Withstand shock loads and pressures.	OGG 2500
Cogen Plant	Turbine Couplings	A premium grade high temperature antiseize compound with solid lubricants for better load carrying properties.	KOPAL® 1000
	ID / FD Fans	High temperature, long life polyurea grease.	PUG 1000 H
		High performance EP moly grease for medium loads.	BRB 30
	Motor Bearings	Multifunctional high temperature extreme pressure greases for long term lubrication of bearings.	MPG RED
		High temperature, long life polyurea grease.	PUG 1000 H
	Gear Box	Highly adhesive and moisture resistant fluid greases for heavily loaded metal gears.	LONG LIFE 0 / 00
Distillery	Centrifugal Pumps	Multi purpose lead free grease with ep properties for extended re-lubrication periods.	MPG EPLF
	Gearbox	Highly adhesive and moisture resistant fluid greases for heavily loaded metal gears.	LONG LIFE 0 / 00
	ID / FD fan Bearings	High temperature, long life polyurea grease.	PUG 1000 H
	Motor Bearing	Multifunctional high temperature extreme pressure greases for long term lubrication of bearings.	MPG RED
		High temperature, long life polyurea grease.	PUG 1000 H
	General Bearing	Multifunctional high temperature extreme pressure greases for long term lubrication of bearings.	MPG RED

YOUR BENEFITS

- Extends bearing's life and gives longer relubrication intervals.
- High protection against seizure and wear, avoiding expensive repairs & frequent shutdown.
- Good sealing properties against hot water, cane juice and dirt-laden environments.
- Excellent flow & pump-ability for automatic centralized and individualized systems.

Product Specifications

GREASES

PRODUCT	THICKENER / OIL	BASE OIL VISCOSITY @ 40°C (cSt)	NLGI GRADE	DROPPING POINT (°C)	OPERATING TEMPERATURE (°C)
BRB 30	Lithium / Mineral	120	#2	+180	-20 / +150
TFG 100	Lithium Complex / Mineral	150	#2	+260	-20 / +160
SMG PREMIUM SERIES	Aluminum Complex / Refined Mineral Oil	2500	#1, #00	+270	-20 / +200
OGG 2500	Metal Complex / Mineral	2500	#2	+250	-20 / +150
SGH 220 PLUS	Special Complex / Mineral	460	#2	+300	-20 / +200
SAFOL™ FGG SERIES	Aluminium Complex / Synthetic	200	#2, #1, #0	+270, +260, NA	-30 / +180
KOPAL® 1000	Special Soap / Mineral	NA	#2 / 1	NA	-40 / +1100
PUG 1000 H	Polyurea / Mineral	100	#2 / 3	+250	-20 / +180
MPG RED	Lithium Complex / Mineral	150	#2, #3	+260 , +250	-20 / +160
LONG LIFE 0 / 00	Special Soap / Mineral	150	#0, #00	NA	-20 / +120
MPG EPLF SERIES	Special Soap / Mineral	100	#2, #1, #0, #00, #000	+180, +170, NA, NA, NA	-20 / +120

OILS

PRODUCT	BASE OIL	BASE OIL VISCOSITY @ 40°C (cSt)	COPPER CORROSION (Rating)	POUR POINT (°C)	FLASH POINT (°C)
SAFOL™ GEAR OILS	PAO	150 / 220 / 320 / 460	1a	-45 / -39 / -33 / -27	260

Accelerating industrial performances across the world

Designed by empirici designs



Efficient lubrication solutions to drive industries forward

Molygraph is India's leading engineered lubricants company. For over 32 years we have mastered the art of making high quality speciality lubricants for various industries & applications. At the core of each of our products lies our strong emphasis on Research & Development and a deep understanding of the client's expectations, which helps us deliver optimal solutions.

The consultative selling approach lays emphasis on value creation for our clients & has led Molygraph to be a front runner in the speciality Lubricants market in India as well as developing a global footprint with a presence in over 25 countries around the world.

BUSINESS VERTICALS

- Animal Feed
- Automotive Components & Manufacturing
- Cement
- Food
- Forging
- Metal Cutting & Forming
- Mining
- MRO
- Oil & Gas
- Pharmaceutical
- Plastic Moulding
- Pulp & Paper
- Punching & Stamping
- Steel
- Sugar
- Textile
- Wind Power

PRODUCT LINE

- Aerosol Sprays
- Cleaners & Degreasers
- Dispersions
- Lubricating Greases & Pastes
- Lubricating Oils
- Metal Forming Fluids
- Rust Preventives
- Solid Lubricants
- Thread Dope Compounds

PRODUCT APPLICATIONS

- Bearings
- Chain & Wire Ropes
- Conveyor Chains
- Forging & Extrusion
- Gears
- Metal Cutting & Grinding
- Metal Punching & Stamping
- Nuts, Bolts & Threads
- Sheet Metal Drawing
- Valves

