
Pharmaceutical

*Customized Range of
Safe Lubricants for the
Pharmaceutical Industry*





Safol®

Effective lubricating solutions that meet stringent requirements and compatibility with Pharmaceutical Products.



The pharmaceutical industry requires safe, non-toxic lubricants that meet the strict regulatory requirements for its manufacturing. There are many moving parts in the manufacturing process where leakage of lubrication is a major problem that can cause contamination in the drug products.

Molygraph's SAFOL range of non-toxic and safe lubricants comply with NSF standards and are recommended for various demanding applications. The ingredients comply with the requirements of the Food and Drug Administration and are independently verified by NSF.

While facilitating NSF compliance, specialty lubricants can also increase the productivity, reliability, and economic operation of machines used in the manufacturing of pharmaceuticals, cosmetics, and personal care products. Further benefits include high resistance to aging and oxidation, optimized wear protection, good corrosion protection, and good water resistance.

There are 3 key reasons why lubricants have a significant impact on pharmaceutical industries:

- Protection of expensive equipment and costly maintenance breakdowns.
- Ensuring quality and making sure the lubricants are compliant with the legal standards.
- Maintaining efficiency by reducing energy consumption, increasing productivity and lowering operational costs.

Overall lubricants play an important role in the performance of the pharmaceutical manufacturing plant.

OPERATING CONDITIONS

- | | |
|-----------------------------|-----------------------|
| ➤ Sterile, no contamination | ➤ Low dust & humidity |
| ➤ Corrosion free | |

Product Selector

MACHINE	APPLICATION	FEATURES & BENEFITS	PRODUCT
Tablet Compression Press	Tablet punches & bronze guides	NSF - H1, Halal & Kosher certified high performance food grade synthetic gear oils capable of operating under a high load carrying environment.	SAFOL GEAR OIL 220 / 460
	Tablet punches & steel guides	NSF - H1, Halal & Kosher certified food grade synthetic oils with special additives offering reliable protection against corrosion of contacting surfaces.	SAFOL OIL 100
	Main Shaft bearings /Rotor bearings	NSF - H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL FGG
	Hydraulic Systems	NSF - H1, Halal & Kosher certified food grade synthetic oils with special additives offering reliable protection against corrosion of contacting surfaces.	SAFOL OIL SERIES
	Gear Units	NSF - H1, Halal & Kosher certified high performance food grade synthetic gear oils capable of operating under a high load carrying environment.	SAFOL GEAR OIL SERIES
Blister Packaging Machine	Guide rails, Racks, Drives & Cardan Shafts	NSF - H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL FGG
	Chains	NSF - H2, Halal & Kosher certified low evaporating chain oil with good EP & AW properties.	SAFOL CHAIN OIL 220
	Moulds for deep drawing film	NSF - H1, Halal & Kosher certified food grade synthetic oils with special additives offering reliable protection against corrosion of contacting surfaces.	SAFOL OIL 22
Cartoning Machine	Guide rails, Racks, Drives & Cardan Shafts	NSF - H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL FGG
	Chains	NSF - H2, Halal & Kosher certified low evaporating chain oil with good EP & AW properties.	SAFOL CHAIN OIL 220
Granulating Machine	TMG Agitator	High temperature synthetic gear oils with good AW and EP characteristics.	ULTRA GEAR SYN 150
Filling Machine	Guides & Open Sliding Points	NSF - H1, Halal & Kosher certified food grade grease for wide temperature range.	SAFOL FGG
	Chains	NSF - H2, Halal & Kosher certified low evaporating chain oil with good EP & AW properties.	SAFOL CHAIN OIL 220

Product Specifications

GREASES

PRODUCT	THICKENER / OIL	BASE OIL VISCOSITY @ 40°C (cSt)	NLGI GRADE	DROPPING POINT (°C)	OPERATING TEMPERATURE (°C)
SAFOL FGG SERIES	Aluminium Complex / Synthetic	200	#2, #1, #0	+270, +260, NA	-30 / +180

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
SAFOL OILS	PAO	22 / 32 / 46 / 68 / 100	1a	-57 / -57 / -50 / -48 / -36	270
ULTRA GEAR SYN OILS	PAO	150	1a	-45	220

Accelerating industrial performances across the world

Designed by empiric! 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

