

Pulp & Paper

*Customized Range of
Speciality Lubricants for
the Pulp & Paper Industry*





Efficient lubricants for end-to-end operations in Pulp & Paper Industry.

The Pulp and Paper Industry finds itself confronted with tough requirements. The various sections of a papermaking machine expose about hundreds of different bearings, gears, couplings, etc. to harsh conditions including high loads and vibration, severe moisture and corrosive media effects, thermal stress (heat & steam), and paper dust. These conditions require maximum performance of the lubricants selected along with cost efficiency.

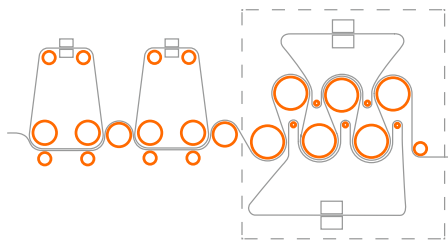
A paper machine, from wet end to dry end, has different operating conditions. These challenges can be met by using a specialty lubricant specifically designed for paper mills. Molygraph has proven high-performance products that can provide maximum performance, improve equipment life, & reduce lubricant consumption.

Our field engineering team is ready to help you with lubricant selection and application thereby reducing breakdowns and maintenance costs.

OPERATING CONDITIONS

- | | |
|------------------------------|---------------------------------|
| ➤ Premature bearing failures | ➤ Chemical resistant |
| ➤ Heavy water ingress | ➤ Thermal stress (heat & steam) |
| ➤ High load & vibrations | |

Featured Products



SGH 460 M / SGH 460 M PREMIUM

Highly optimal Calcium Sulphonate grease specifically designed for the Paper Industry.



SGH 460 series of greases are designed to outperform conventional products, our proprietary formulation provides excellent high-temperature performance with excellent adhesion, structural stability & resistance to water contamination. It has high level of chemical stability & offers outstanding protection against rust & corrosion.

Its performance features make it an ideal choice for operating conditions including high temperature, water contamination, shock loading and extended relubrication operations.

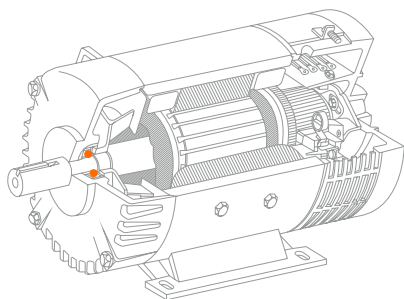
SGH 460 Series is intended for a wide variety of applications and severe operating conditions.

Key Features:

- Excellent water tolerance thus enhanced corrosion resistance.
- High drop point.
- Good mechanical stability, EP & AW Property.

Application:

- Paper Mill Bearings (Wet end to Dry end)



PUG 9500 HS

High performance synthetic Polyurea grease designed for electric motor bearings.



The proper lubrication of electric motor bearings is essential in maintaining them in peak operating condition and, ultimately, in reducing unnecessary downtime.

PUG 9500 HS is a high performance Polyurea grease which is the preferred choice for sealed-for-life applications. Being ashless, with inherent oxidative stability, thermal resistance, low oil bleed makes it an optimum choice for high operating temperatures.

The greases' thixotropic behaviour, meaning the grease softens and flows when sheared, then thickens back to its normal consistency, provides superior sealing when equipment is not in use.

Formulated with synthetic polyalphaolefin which provides a much wider operating temperature range, and burns clean without leaving behind residue.

Key Features:

- Exceptional life vs conventional products at high temperatures.
- Superior sealing and prevents leakage.
- Low noise chemistry.
- Excellent mobility and pumpability.

Product Selector

PROCESS	APPLICATIONS	FEATURES & BENEFITS	PRODUCT
Debarking	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
	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
	Electric Motor	Long life synthetic high temperature grease with extended relubrication intervals.	PUC 9500 HS
Chipping	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
	Couplings	A shear stable high viscosity water resistant grease. Guards against rust & corrosion.	SC 1000
Pulping	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
	Couplings	A shear stable high viscosity water resistant grease. Guards against rust & corrosion.	SC 1000
	Electric Motor	Long life synthetic high temperature polyurea grease with extended relubrication intervals.	PUC 9500 HS
	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
	Fan Bearings	High temperature, long life polyurea grease.	PUC 9000 H
Digesting / Pulp Washing / Bleaching	Bearings	Heavy duty calcium sulfonate complex grease with high tackiness and good shear stability. Excellent EP & wear protection—outstanding water resistance property including hot & cold water.	SGH 460 M
	Gears	High temperature synthetic gear oils with good AW and EP characteristics.	ULTRA GEAR SYN OILS
Screening	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
	Couplings	A shear stable high viscosity water resistant grease. Guards against rust & corrosion.	SC 1000
Winding	Bearings	Multifunctional extreme pressure high load & water resistant grease with good shear stability.	SGH 220 PLUS
Paper Machining (Wet End / Dry End)	Bearings	Heavy duty calcium sulphonate complex grease with high tackiness and good shear stability. Excellent EP & wear protection. Outstanding water resistance property including hot & cold water.	SGH 460 M
		Special complex heavy duty high temperature water resistant grease to perform in harsh conditions with extended relubrication intervals.	SGH 460 PREMIUM

PROCESS	LUBE POINTS	FEATURES & BENEFITS	PRODUCT
Calendering / Sizing & Coating	Bearings	Heavy duty calcium sulphonate complex grease with high tackiness and good shear stability. Excellent EP & wear protection. Outstanding water resistance property including hot & cold water.	SGH 460 M
		Special complex heavy duty high temperature water resistant grease to perform in harsh conditions with extended relubrication intervals.	SGH 460 PREMIUM
Drying	Bearing - High Temp	High performance high temperature chemical resistant fluorinated grease.	FLUROTEMP 512
		Long life synthetic high temperature polyurea grease with extended relubrication intervals.	PUG 9500 HS

YOUR BENEFITS

- Minimal downtime and maximum productivity.
- Outstanding structural stability in hostile water environments.
- Lower maintenance & operational cost.
- Increasing overall operational efficiency and reducing the need for frequent maintenance.

Product Specifications

GREASES

PRODUCT	THICKENER / OIL	BASE OIL VISCOSITY @ 40°C (cSt)	NLGI GRADE	DROPPING POINT (°C)	OPERATING TEMPERATURE (°C)
PUG 9500 HS	Polyurea / Synthetic	400	#2	+250	-30 / +200
SGH 460 PREMIUM	Special Metal Complex / Mineral	460	#2	+300	-20 / +200
SGH 460 M	Calcium Sulfonate Complex / Mineral	460	#2.5	+300	-25 / +200
SGH 220 PLUS SERIES	Special Complex / Mineral	220	#2, #2 / 1	+300	-20 / +200
OGG 2500 SERIES	Metal Complex / Mineral	2500	#000, 00, 0, 1, 2	+250	-20 / +150
SG 1000	Lithium Complex / Mineral	220	#2	+240	-20 / +160
FLUROTEMP 512	PTFE / PFPE	500	#2	NA	-30 / +260

OILS

PRODUCT	BASE OIL	BASE OIL VISCOSITY @ 40°C (cSt)	COPPER CORROSION (Rating)	POUR POINT (°C)	FLASH POINT (°C)
ULTRA GEAR SYN OILS	PAO	32 / 100 / 150 / 220 / 320 / 460 / 680 / 1000	1a	-48 / -45 / -45 / -39 / -36 / -33 / -27 / -24	220 / 220 / 220 / 225 / 225 / 225 / 230 / 240

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

