



**PAN INDIA MARKETING AND
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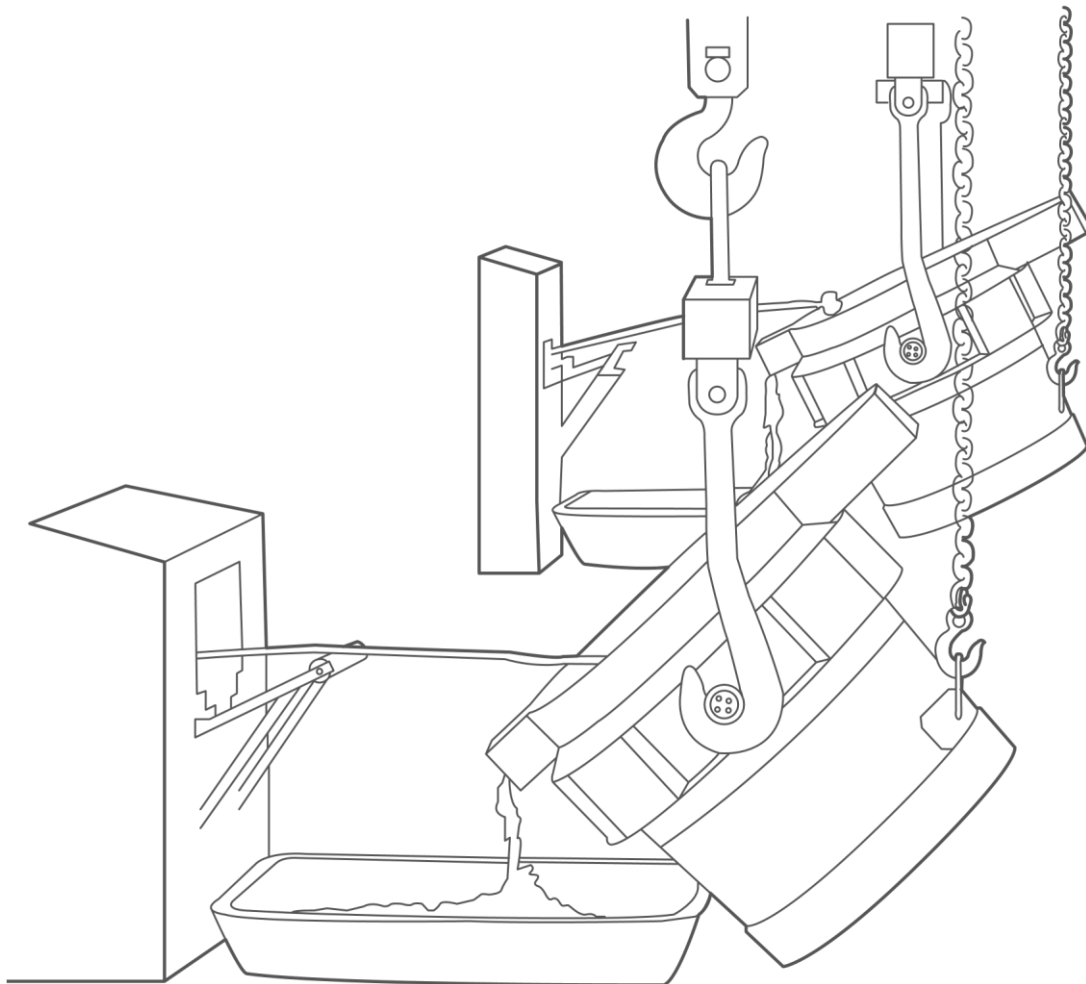
STEEL

Customized range of Speciality Lubricants for the Steel Industry



**GLOBAL STANDARDS
CUSTOMIZED SOLUTIONS
UNPARALLELED SERVICE**

www.molygraph.com



STEEL

Molygraphs speciality lubricants has helped the steel manufacturing industry reduce costs and maintain operations successfully. Steel manufacturing is a tough process putting high demands on lubricants. Factors such as high temperatures, extreme loads, caustic and humid environments make it extremely challenging for lubricants to work optimally.

Molygraph has been continuously working with different chemistries to develop a diverse range of lubricants. Our systemised approach to lubrication challenges provides our customers with key benefits including:

- Cost and productivity savings through Molygraph high performance lubricants
- Complete range of lubricant solutions for critical steel manufacturing processes
- Health and safety protection for operators by the use of safe and environment friendly products

O1 | INTEGRATED STEEL PLANT

The conditions for steel manufacturing are extremely tough and challenging. Right from iron making to finished products every step in the process of making finished steel has different lubrication requirements. Our range of lubricants for integrated steel plants cover every facet of production and help reduce costs by improving productivity.

RAW MATERIAL PREPARATIONS

AREA	APPLICATION COMPONENT	LONG LIFE 2 PREMIUM	SG 1000 M 50
STORAGE	STACKER/BARREL RECLAIMER		
	SLEW RING BEARINGS	●	
	SLEW RING GEAR	●	
	VIBRATOR SCREEN BEARINGS	●	●

RAW MATERIAL PROCESSING

AREA	APPLICATION COMPONENT	LONG LIFE 2 PREMIUM	SG 1000 M 50	OGG 2500 (GR. 1)	SG 1000 M SS	LONGLIFE 1 SUPER SP
COKE OVEN PLANT	PUSHER & GUIDE MACHINE RACK & PINION			●		
	COAL & COKE CRUSHER SPIKE CRUSHER BEARINGS		●			
LIME PLANT	ROTARY KILN					
	OPEN GEAR				●	
	SUPPORT ROLLER BEARING		●			
SINTER PLANT	ROTARY MIXER OPEN GEAR				●	
	SINTER MACHINE					
	PALLET CAR WHEELS	●				
	SLIDE TRACKS					●

PIG IRON PRODUCTION

AREA	APPLICATION COMPONENT	CRG 100 GRADE 1	PUG 9000 H	ULTRAMILL GREASE PU PREMIUM	ULTRATAACK MILL GREASE 460
BLAST FURNACE	HYDRAULIC MUDGUN				
	BEARINGS			●	
	DRILL M/C. CHAINS			●	
	CHARGING SYSTEM				

	SKIP CAR BEARINGS			●	
	SKIP CAR WIRE ROPES	●			
	TORPEDO LADLE				
	TRUNION SYSTEM		●		
	ALL LADLE CAR WHEEL BEARINGS				●

CASTER

AREA	APPLICATION COMPONENT	SG 1000 M 50	SG 1000/1	ULTRAMILL GREASE PU PREMIUM	
CONTINUOUS CASTER	CONVERTER BEARINGS	●			
	LADLE TURRET				
	ROLLING BEARINGS			●	
	WET SEGMENT ROLLING BEARINGS			●	
	EXTRACTOR ROLLING BEARINGS			●	
	TORCH CUTTERS BEARINGS		●		
	COOLING BEDS ROLLERS & MOVING BEAMS BEARINGS		●		
	GEAR COUPLINGS		●		

HOT ROLLING MILL

APPLICATION COMPONENT	SG 1000 M 50	SG 1000/1	ULTRAMILL GREASE PU PREMIUM	ULTRATAACK MILL GREASE SG 400
REHEATING FURNACE WITHDRAWAL/ ROLL TABLE BEARING			●	
WORK/BACK UP ROLL BEARING				●
ROLL CHOKES LINER	●			
ROLLING MILL DRIVE SHAFT GEAR COUPLINGS		●		

APPLICATION COMPONENT	SG 1000 M 50	SG 1000/1	ULTRAMILL GREASE PU PREMIUM	ULTRATAACK MILL GREASE SG 400
WORK/BACK-UP ROLL BEARINGS				●
CHOKES WINDOW LINER	●			
ROLLING MILL DRIVE SHAFT GEAR COUPLINGS		●		
RE-HEATING FURNACE TABLE ROLL BEARING			●	

COLD ROLLING MILL

APPLICATION COMPONENT	SG 1000 M 50	SG 1000/1	PUG 9000 H	ULTRATAACK MILL GREASE 460
WORK/BACK-UP ROLL BEARINGS				•
ROLL CHOKES LINER	•			
ROLLING MILL DRIVE SHAFT GEAR COUPLINGS		•		
PICKLING LINE				
SQUEEZER ROLL BEARING				•
WATER RINSE TANK BEARING				•
WRINGER ROLL BEARING				•
ARB BLOWER FAN BEARING			•	

BAR AND ROD MILL

O2 | STEEL PELLETIZING PLANT

Pelletizing plants involve the process of converting iron ore fines into uniformly sized iron pellets that can be charged directly into the blast furnace. The conditions and processes are demanding and prove a challenge to lubricants. Our range of products cover the entire application area of the pelletizing plant for optimised performance.

GRINDING MILL

APPLICATION COMPONENT	SPRAYLUBE 1250	SPRAYLUBE 2500	SG 1000 M 50	ULTRATAACK MILL GREASE SG 400
BALL MILL GIRTH GEAR	•	•		
BALL MILL GIRTH GEAR PINION BEARING			•	•

MIXTURE MACHINE

APPLICATION COMPONENT	SPRAYLUBE 1250	SPRAYLUBE 2500	SG 1000 M 50	SG 1000 M SS	LONG LIFE 1 PREMIUM
KILN GIRTH GEAR - SPRAY SYSTEM	•	•		•	
SUPPORT ROLLER BEARING / KILN THRUST BEARING / BUCKET ELEVATOR BEARING			•		
SLIDING SURFACE OF TRACK					•
APPLICATION COMPONENT	SPRAYLUBE 1250	SPRAYLUBE 2500	PUG 9000 H		
MIXTURE MACHINE BEARING			•		
MIXTURE MACHINE GEAR	•	•			

BALLING DISC

APPLICATION COMPONENT	SPRAYLUBE 1250	SPRAYLUBE 2500	LONG LIFE 2 PREMIUM

BALLING DISC GIRTH GEAR	•	•	
BALLING DISC BEARING			•

TRAVELLING GUIDE

APPLICATION COMPONENT	PUG 9000 H
TG PLUMBER BLOCK BEARING	•

KILN



O3 | SPONGE IRON PLANT

Sponge iron is basically the direct reduction of iron ore in the form of pellets or fines. Sponge iron can be further processed to form wrought iron. It is also useful as feedstock for speciality steel manufacturers. Lubricants required in Sponge iron manufacturing should be thermally and mechanically stable and should resist water washout. Our range of lubricants for sponge iron manufacturing covers the entire gamut of applications.

APPLICATION COMPONENT	SG 320 SS	SG 460 SS	SG 680 SS	SG 1000 M SS	SG 1000 M 50	ALCOPLEX SG 460 SS	SPRAYLUBE 1000	SPRAYLUBE 1250	SPRAYLUBE 2500	MFG 220	MFG 460	MPG 2 RED	SUPER GREASE EP 2	LONG LIFE 2 PREMIUM
KILN & COOLER SLIP SEAL	●	●	●			●								
KILN & COOLER GIRTH GEAR				●			●	●	●					
SUPPORT ROLLER BEARING					●									●
VIBRATOR SCREEN BEARING										●	●		●	
ID/FD FAN BEARING												●		

PRODUCT	THICKENER	BASE OIL VISCOSITY °C (cSt) @ 40	NLGI GRADE	DROPPING POINT (°C)	OPERATING TEMPERATURE (°C)
ALCOPLEX SG 460 SS	Aluminum Complex	460	#1	N.A.	-20/+250
CRG 100 GRADE 1	Lithium	460	#1	+ 180	-10/+140
LONG LIFE 1 PREMIUM	Lithium Complex	220	#1	+ 240	-20/+160
LONG LIFE 1 SUPER SP	Lithium Complex	200	#2	+ 240	-20/+160
LONG LIFE 2 PREMIUM	Lithium Complex	220	#2	+ 240	-20/+160
MFG 220	Lithium Complex	220	#2	+ 260	-20/+160
MFG 460	Lithium Complex	460	#1	+ 260	-20/+160
MPG 2 RED	Lithium Complex	150	#2	+ 240	-20/+160
OGG 2500 (GR. 1)	Metal Complex	2500	#1	--	-20/+150
PUG 9000 H	Polyurea	460	#2	+ 290	-20/+180

SG 320 SS	Lithium	320	#2/1	N.A	-20/+240
SG 460 SS	Lithium Complex	460	#2/1	N.A	-20/+250
SG 680 SS	Metal Complex	680	#2/1	N.A	-20/+250
SG 1000/1	Lithium/Polymer	680	# 1	+ 190	-20/+160
SG 1000 M 50	Calcium Sulphonate Complex	1000	#2	+ 280	-20/+200
SG 1000 M SS	Lithium	1000	#2/1	+ 205	-20/+160
SPRAYLUBE 1250	Aluminum Complex	1000	#00	N.A	-20/+180
SPRAYLUBE 2500	Aluminum Complex	2500	#00	N.A	-25/+180
SPRAYLUBE 1000	Metal Complex	1000	#0	N.A	-20/+150
SUPER GREASE EP 2	Lithium	100	#2	+ 180	-20/+120
ULTRAMILL GREASE PU PREMIUM	Polyurea	460	#1/2	+ 290	-20/+180
ULTRATAK MILL GREASE SG 400	Lithium	460	#2	+ 180	-20/+150
ULTRATAK MILL GREASE 460	460	460	#3/2	+ 280	-20/+200