

# POWERMAXX LUBE INDIA

## POWER GENERATION & ENERGY INDUSTRY

High Performance Speciality Lubricants for Power Generation & Energy Industry Processing Equipment

Increasing Plant & Equipment Reliability, Sustainability for Value & Creating Cost Savings all along with Process. Non-bituminous, Non-toxic additive & Environment Eco-friendly lubricants

### POWER GENERATION & ENERGY INDUSTRY PROCESSING

APPLICATION / EQUIPMENT	FEATURES / BENEFITS & ADVANTAGES	POWERMAXX RECOMMENDED SOLUTION
<b>AIR PREHEATERS</b>		
<b>ID, FD &amp; Exhaust Fan bearings</b>	Long life synergetic polyurea high temperature grease extended re-lubrication intervals, water resistance, corrosion protection in plain & anti-friction bearings	<b>SYNTH POLYTHERM -2 220</b>
<b>Main drive gearbox bearings, Lube oil pump bearings</b>	Synergetic lithium complex high temperature grease with EP/AW, high shock loads, water resistant with good shear stability & pumpability for multifunctional applications	<b>PD LCX-222</b>
<b>TURBINE PARTING LINE; NUTS, BOLTS ASTC PASTE SUPERHEATED TURBINE</b>		
<b>Parting Line; Nuts, Bolts, Exotic Alloys (Paste for Anti-Seize)</b>	Copper based high performance antiseize compound for maintaining the creeping, protects against carbon fusion, minimizes parts replacement costs, enables faster disassembly when repairs are needed	<b>COPAZ-B2 (Copper Anti-Seize Paste)</b>
<b>Turbines</b>	Rust and corrosion protection & Rapid water separation keeps water in oil to a minimum	<b>TURBINE OIL - 46 &amp; 68</b>
<b>BOILER</b>		
<b>ID &amp; FD Fan Bearing</b>	Long life synergetic polyurea high temperature grease with good pumpability extended re-lubrication intervals, water resistance, corrosion protection in plain & anti-friction bearings	<b>SYNTH POLYTHERM -2 220</b>
<b>Feed Pump Bearing</b>	Synergetic lithium high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD</b>
<b>ID Fan Bearings (Shaft Size below 100 mm)</b>	Long life synergetic polyurea high temperature grease to perform long life under high speed extended re-lubrication intervals, water resistance, corrosion protection is required in plain & anti-friction bearings	<b>SYNTH POLYTHERM-2.5 100</b>
<b>ID Fan Bearings (Shaft Size above 100 mm)</b>	Long life synergetic polyurea high temperature grease with good pumpability extended re-lubrication intervals, water resistance, corrosion protection in plain & anti-friction bearings	<b>SYNTH POLYTHERM -2 220</b>
<b>Heat Exchanger System - Main and Guide Bearings</b>	Long life synergetic polyurea high temperature grease with good pumpability extended re-lubrication intervals, water resistance, corrosion protection in plain & anti-friction bearings	<b>SYNTH POLYTHERM -2 460</b>
<b>Steam Drain Control Valve, Oil Seals, O-Rings, Gaskets</b>	Synthetic grease with excellent thermal stability, Water repellency, Ditectric application chemical inertness and maintains its consistency over a wide temperature range. Good sealing ability which makes this grease ideal for vacuum & pressure system handling equipment	<b>SILICON-100</b>

<b>Nuts, Bolts, All Threaded Connections (Paste for Anti-Seize)</b>	Copper based high performance antiseize compound for maintaining the creeping, protects against carbon fusion, minimizes parts replacement costs, enables faster disassembly when repairs are needed	<b>COPAZ-B2 (Copper Anti-Seize Paste)</b>
<b>ASH HANDLING SYSTEM</b>		
<b>Ash Slurry Pump Bearings</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Water Pump Bearings</b>	Synergetic lithium complex high temperature grease with EP/AW, high shock loads, water resistant with good shear stability & pumpability for multifunctional applications	<b>PD LCX-222</b>
<b>MILL PLANT</b>		
<b>Press fits In Beater Mills, Hammer Mill, Ball Mills</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Steam Drain Control Valve, Oil Seals, O-Rings, Gaskets</b>	Excellent thermal stability, Water repellency, Ditectric application chemical inertness and maintains its consistency over a wide temperature range. Good sealing ability which makes this grease ideal for vacuum & pressure system handling equipment,	<b>SILICON-100</b>
<b>COAL HANDLING PLANT</b>		
<b>Stacker Reclaimer Bearings</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Coal Mill Open Gears,</b>	Synergetic heavy duty open gear & rotary mills grease with high purity graphite and extreme pressure additives that help prevent excessive wear, squeeze out & ratio change. Withstand high shock loads and pressures.	<b>G-HTXX-0-00 1500 HD</b>
<b>Stacker Reclaimer Open Gears</b>		
<b>Wagon Tippler Open Gears</b>		
<b>Gear Couplings</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Apron Feeder Bearings</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Coal Crusher Bearings</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>
<b>Bearings &amp; Bushes</b>	Synergetic lithium & lithium complex high temperature grease with moly and EP/AW additives, high shock loads & water resistant grease with good shear stability for multifunctional applications.	<b>MOLEX EP-2 HD / MOLY HT LCX-220 PLUS HD</b>

<b>Air compressors</b>	Excellent heat conduction properties & separation from air and minimum foaming tendency in critical high temperature areas	SYNTH AIR COMPRESSOR OIL-46, 68, 100, 150, 220 (Synthetic)
<b>Enclosed Gear Box</b>	High temperature synthetic gear oils with good AW and EP characteristics. Protects against oxidation, foaming and high temperature deposits.	SYNTHETIC HD TECHGEAR EP GL-5 - 150, 220, 320, 460 (PAO Based)
	Advanced micropitting protection synergetic gear oil formulated with ultra-high performance EP additive and high quality synergetic base oil. Protects against oxidation, foaming, high temperature deposit & heavy-duty gear boxes operating in harsh conditions.	MPR GEARMAX - 150, 220, 320, 460 (Micro-Pitting Resistance)

## PRODUCT SPECIFICATIONS

### GREASE SPECIFICATIONS

Product	Thickener / Base Oil Type	Viscosity @ 40°C cSt	NLGI	Drop Point °C	Operating Temp°C
PD LCX-222	Lithium Complex / Synergetic	220	2	+265	-20 to 160
MOLEX EP-2 HD	Lithium + Moly/ Synergetic	220	2	+190	-20 to 140
MOLY HT LCX-220 PLUS HD	Lithium Complex + Moly / Synergetic	220	2	+265	-20 to 160
G- HTXX-0-00 1000 HD	Bentonite Clay / Synergetic	1000	0/00	+320	-20 to 180
SYNTH POLYTHERM -2 460	Polyurea / Synergetic	460	1	+280	-20 to 180
SYNTH POLYTHERM -2 220	Polyurea / Synergetic	220	1	+280	-20 to 180
SYNTH POLYTHERM-2.5 100	Polyurea / Synergetic	100	2.5	+280	-20 to 180
COPAZ-B2 (Copper Anti-Seize Paste)	Special Metal Complex / Mineral	1000	2	None	-20 to +1200
SILICON -350	Silicon / Synthetic	1000	3	None	-40 to 260

### OIL SPECIFICATIONS

Product	Base Oil Type	Base Oil Viscosity @ 40°C cSt	Copper Corrosion	Pour Point °C	Flash Point °C
SYNTHETIC HD TECHGEAR EP GL-5	Fully Synthetic	150/220/320 /460/680	1b pass	-45	250
MPR GEARMAX (Micro-Pitting Resistance)	Synergetic	150/220/320 /460/680	1b pass	-19	240
SYNTH AIR COMPRESSOR OIL	Fully Synthetic	32/46/68/ 100/150/220	1a	-50	260
TURBINE OIL	Mineral	46 & 68	1b pass	-24	240