



# LUBRICANTS

POWER TO PERFORM

## LITHOPLEX SERIES INDUSTRIAL GREASES

### SPECIAL FEATURES

LITHOPLEX series of greases are premium quality, lithium base complex greases suitable for lubricating various types of mechanical equipments. These are superior multipurpose greases, developed to meet the varied temperature requirements of ball and roller bearing lubrication. They possess outstanding oxidation & mechanical stability, water-resistant and rust protection characteristics. These grades have an exceptionally high dropping point giving them excellent resistance to leakage, dripping and throw-off at elevated operating temperatures. Also they possess unique non corrosive EP additives to assist in boundary lubrication conditions.

### SPECIFICATIONS

LITHOPLEX Series meet IPSS: 1-09-020.

### APPLICATION AREA

LITHOPLEX grades meet the requirements of all industrial grease applications for ball and roller bearings in steel mills, paper mills, cement plants. LITHOPLEX has, in addition to shear stability, high load carrying capacity and is recommended for situations having extremely high temperature. These greases are suitable for applications up to 200°C. LITHOPLEX is also suitable for ball and roller bearings of railway axle boxes. LITHOPLEX 1 is suitable for applications in the lubrication of the rack and pinion joint of the kilns in the cement industry. It is also suitable for slip seal application in sponge iron plant.

### PACKAGES

182 Kg.(Steel Drums).



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### PHYSICO-CHEMICAL PROPERTIES

	LITHOPLEX HTX 1	LITHOPLEX HTX 2	Methods of Tests is ASTM other
*Appearance	Green Smooth & homogeneous		Visual
NLGI Grade	NLGI 1	NLGI 2	NLGI
Type of soap	Lithium Complex	Lithium Complex	
*Drop point, °C	250	260	P 52 ASTM D 566 IP 132
*Consistency, @ 25°C Worked, 60 X Worked, 100,000 X	310-340 ±30 of 60X	280-305 ± 30 of 60X	P 60 ASTM D 217 IP 50
Mineral oil Component Flash Point, COC, °C Kin Viscosity @40°C, cSt Viscosity Index, Min	220 198-248 90	220 198-248 90	P 59 ASTM D 128 P 69 ASTM D 92 IP 36 P 25 SATM D 445 IP 71 P 26 ASTM D 2270 IP 226
*Heat stability, @ 100°C, 30hrs Loss % wt. Max	5.0	3.0	P 89 ASTM D 6184 HP 21
*Copper Corrosion, @ 100°C, 24 hrs.	Negative	Negative	P 51 ASTM D 4048 IP 112
Wheel bearing test, @ 115°C Slump test Leakage, gm, max	Passes 5	Passes 5	ASTM D 1263
Emcor Rust Test, Rating, max	0.0	0.0	ASTM D 6138 IP 220
Resistance to water washout @ 80°C, % loss by wt. Max	8	5	P 94 ASTM D 942 IP 142
Roll Stability Test, % Change in Penetration after 16 Hrs. Max	18	18	ASTM D 1831
Oxidation stability @ 100°C Drop in pressure, psi, max	5	5	P 94 ASTM D 942 IP 142
Four ball wear scar dia, mm, max *Four ball weld Load, kg, min	0.50 280	0.50 280	ASTM D 2266 ASTM D 2596

### PERFORMANCE BENEFITS

- Excellent resistance to leakage & dripping at high temperature
- Outstanding oxidation and mechanical stability
- Works most satisfactorily even at high loads, wet and dry situations
- Good rust protection characteristics