

# Synthetic HT LCX-2 100, 220, 460, 1000, 1500 HD

## (Heavy Duty Synthetic base oil + Lithium Complex grease)

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### DESCRIPTION

**SYNTHETIC HT LCX-2 100, 220, 460, 1000, 1500 HD** grease is synthetic long life high temperature grease designed for automotive and industrial applications. It contains antioxidants, anti-corrosion and EP additives and Lithium Complex thickener grease designed with premium quality synthetic **PAO (PolyAlphaOlefin)** base oils to withstand water. These greases contain small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement additive. Provide a heavier oil film for applications with excessive loading at high, slow & medium speed with high temperature. Lubrication at temperatures  $>200^{\circ}\text{C}$  is very often poorly controlled. Use of traditional or even synthetic greases is not enough, or requires almost daily topping up. To resist decomposition or strong evaporation of the base oils at these extreme temperatures, the solution is to employ non-conventional chemistries. These greases are specially developed for application areas where extensive water contact or presence is there and gives outstanding performance in arduous Automotive & Industrial such as: Paper, Steel, Sugar, Marine & Mining applications. **The synthetic base oils used are in particular: PAO (PolyAlphaOlefin). Synthetic greases provide the longer re-lubrication.**

### APPLICATIONS

- **SYNTHETIC HT LCX-2 100, 220** grease is recommended for applications under sealed for rolling element bearings, heavy duty electric motor ball, fans, air-conditioning bearings, automotive alternator/generator/starter motor bearings, Industrial fans, including high speed fans, Water pumps, rolling bearings in textile, paper processing and drying machines, Clutch release bearings, Vertical shaft and other wide range of industrial applications operating under medium and high speed ball (and roller) bearings operating at medium and high temperatures. Kiln trucks and rollers, Pumps, Small, medium and large bearings and roller bearing where antifriction bearings operating at high speed & high temperature.
- **SYNTHETIC HT LCX-2 460, 1000, 1500 HD** grease is recommended where continuous high, medium & low speed bearings with high loads intermittent very high temperatures are experienced. **Marine & Offshore:** Scrapers, rakes, dockside cranes, water environments such as slips ways, wire ropes, crane pulleys, Anchor winches, Deck equipment bearings, Cargo door hinges, Thruster and rudder bearings, spring leaves, chain drives, Open and Semi-Open Gear Systems, boat trailers and similar applications where heavy duty bearings, pins, bushes, slides etc are subjected to extreme wet conditions. Heavy duty and extreme heavy haul trucking: fifth wheels, U-joints, kingpins, steering drag links, shackle pins, pivots, cross shaft spring pins. **Mining, Construction, Pit & Quarry:** bulldozers, scrapers, backhoes, excavators, compactors, cranes, paving machinery, articulated vehicles, soil compactors, graders, ditch hoes, loaders, rock crushers, conveyors, rock drills, bridge cranes, water tender, log trucks, chip van trucks. **Agriculture, Forestry and logging:** tractors, implements, tillage, planting and seeding machinery, sprayers and spreaders, hay balers, harvesting machinery, combines, mowers, skid steers. harvester-processors, feller-benchers, mulched-masticators, brush cutters, shovel loggers, skidders, brush piling shovels, brush rakes, yarders, log landing machines, shovels, stroke delimiters, loaders, grinders, chippers, debarkers, forest road machines. **Heavy industry Steel, Sponge Iron plants, Cement, Sugar, Paper & Chemical:** heavily loaded plain and anti-friction bearings in cement, paper, and metal (steel, aluminium, copper) industries. It is recommended for application for high temperature application in slip seal in kilns of sponge plants, Fibrizer bearings, Couplings, ID & FD Fan bearings and pins in sugar plants where vibration, shock loads and non-melting grease is required where continuous low & medium speed bearings with high loads intermittent with very high temperatures are experienced. It can also be used in applications where high resistance to water washing is needed at medium & low speed bearings. It is a pumpable grease when working under high hydraulic pressure generated by the pumps of centralized and Individualized systems.

## BENEFITS

- Lithium complex thickened grease formulated with a premium additive system and a combination of synthetic and conventional base oils.
- Optimized formula provides superior performance properties over a wide operating range **-20°C to 180°C (-5° to 356°F)**, for a variety of weather conditions and application temperatures.
- Excellent oil film retention property when temperature rises the grease bleeds oil and when temperature drops, the free oil returns back to the grease. Proprietary adhesive, stay-in-place formula helps seal out contaminants & extend lubrication intervals.
- High load-carrying capacity offers wear protection under severely loaded conditions; capable of carrying up to 3X more load than conventional greases.
- Enhanced water and corrosion resistance protects equipment under adverse conditions including saltwater spray and exposure to corrosive anti-icing agents.
- Superior protection in a variety of applications where enhanced load carrying capability, water resistance, and anti-corrosion protection properties are required.
- Thermally stable, can withstand high shock loads, and minimizing metal to metal contact.
- Extends equipment bearing life through superior performance & gives longer re-greasing intervals
- High protection against seizure and wear, avoiding expensive repairs.
- Highly loaded bearings in water / steam contaminated environments, No need for external cooling.
- Reducing grease consumption & low cost gives immediate monetary savings.
- Non-bituminous, non-toxic additive and Environment friendly.

## APPLICATION SEGMENT

STEEL SEGMENT	PAPER & PULP SEGMENT	TEXTILE SEGMENT
Rolling Bearings Grinding Mills / Ball Mills	Roller Bearings Digester – Chemical pulping	Top and Bottom Rollers Speed Frame / Ring Frame
Rotor Bearings (Roller Bearings) Coke Oven Plant	Roller Bearings Bleacher – Chemical pulping	Drying Cylinder Bearings Sizing
Slide Tracks Sintering Machine	Wire Press / Screw type Press Dewatering Presses	Fan Bearings Stenter Machine/Dyeing/Finishing
Roller Bearings Billet Mould / Hot metal car wheels	Breast Roll / Suction Roll / Other Rolls Wet end – Paper Manufacturing	
Roller Bearings – Ladles / Arc Furnaces Steel Melting Shop	Roller Bearings in Steam Head Dry end – Paper manufacturing	
Roller Bearings - Ladle Turret/Torch Cutter Continuous Casting Machine	Drying Cylinders / Calender Rolls Dry end – Paper manufacturing	
Roller Bearings – Work Rolls / Pre-heating Hot Rolling Mill	Soot Blower / Flue gas fan Chemical Recovery System	

## PROPERTIES OF SYNTHETIC HT LCX-2 100, 200, 460 HD, 1000, 1500 HD

SPECIFICATIONS	100	220	460 HD	1000 HD	1500 HD
NLGI	2, 3	2, 3		0, 1, 1.5, 2	
Thickener type	Lithium-complex				
Base oil Type	Synthetic PAO (PolyAlphaOlefin)				
Appearance & Colour	Smooth, Buttery / Green, Red, Blue or Beige				
Viscosity at 40°C	100	220	460	1000	1000 Cst
Operating-Temperature	-40°C to 180°C				
Dropping Point	280	280	280	280	280
Worked Penetration	230-295	230-295	265-310	265-295	265-295
Water wash out	1% max	1% max	1% max	1% max	1% max
4 Ball EP Weld Load	315	315	+620 to 800	+620 to 800	+620 to 800

## POWERMAXX LUBE INDIA

Website: [www.powermaxxlube.com](http://www.powermaxxlube.com) Email: [info.powermaxx918@gmail.com](mailto:info.powermaxx918@gmail.com), [info@powermaxxlube.com](mailto:info@powermaxxlube.com)

Contact Number: 996748763, 7506973307