

## **SYNTH HT LCX-2 460 HD (Special heavy duty Semi-Synthetic grease)**

*(Lithium Complex, Mox-Active special German technology, premium synergistic Base Oil with EP properties for Heavy duty & High Temperature applications)*

### **DESCRIPTION:**

**SYNTH HT LCX-2 460 HD** is heavy duty *semi-synthetic special lithium complex* grease formulated with *premium high viscosity synergistic base oils, antioxidants, anti-corrosion, rust inhibitors & special EP (Extreme Pressure) additives* to provide a heavier oil film for applications with excessive loading at slow and medium speed & high temperature. **SYNTH HT LCX-2 460 HD** greases contain small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement friction modifier additive creates a passive film on friction surfaces before friction occurs, optimum wear protection and an extremely low coefficient of friction even under extreme pressures, vibrations & heavy shock loads. This grease provides with excellent load-carrying capacity, extra wear resistance prevents seizures & excessive wear when operating under higher loads, resulting in longer equipment component life. Highly recommended for heavily loaded plain and anti-friction bearings those found in marine & off-shore, steel, paper & cement industries. It possesses resistance to water washout and provides effective protection against rust and corrosion for both ferrous and non-ferrous metals for extreme pressures. These greases are specially developed for application areas where extensive water contact or presence, vibration & high shock loads are there and gives outstanding performance. Lithium Complex thickener used to maintain their consistency and EP protection even with high levels of *industrial & sea salt water contamination*.

### **APPLICATIONS**

- **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, 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 ambient temperature 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.
- Refer to equipment owner's manual for proper lubricant recommendation.

## ADVANTAGES & 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.

## PROPERTIES

SPECIFICATION	TEST METHOD	SYNTH HT LCX-2 460 HD
Color	Visual	Golden Brown
Appearance	Visual	Smooth, Buttery & Tacky
Base oil Type %	-	Synergistic base oil (Semi-Synthetic)
Solid Lubricants	-	Mox-Active + PAO Ester
Thickener	-	Special Lithium - Complex
NLGI	ASTM D217	2
Drop Point, °C (°F)	ASTM D2265	+ 280°C (526°F)
Work Penetration	ASTM D217	265 - 295
Viscosity at 40° Cst	ASTM D445	460
Viscosity at 40° Cst	ASTM D445	32
Copper strip corrosion	ASTM D 4048	1a
4-Ball Weld Load kgs	ASTM D2596	800
4-Ball Weld Load Wear mm	ASTM D2266	42
Rust Prevention	ASTM D1743	pass
5% Synthetic Sea Water Corrosion	ASTM D5969	pass
Water Washout,	ASTM D1264	1.8
Water Spray Off	ASTM D4049	8.6
SKF Emcor Rust Test, Distilled Water	ASTM D6138	0,0
Operating Range, °C	-	-20°C to 180°C (-5° to 356°F)

**Additional Information:** When converting to new oil/grease kindly flush previous oil/grease before filling, all previous oil/grease should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

### 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