

SYNTHETIC MOLY HT LCX-2 150, 460, 1000 & 1500 HD

(Lithium Complex, Polyalphaolefin (Synthetic) EP Grease with MoS₂ for Heavy-duty)

DESCRIPTION:

SYNTHETIC MOLY HT LCX-2 150, 460 HD, 1000 HD & 1500 HD is long life heavy duty *synthetic lithium complex* grease formulated with *premium high viscosity synthetic base oils* to withstand water. It contains small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement additive & 4% to 5% molybdenum disulphide (MoS₂), antioxidants, anti-corrosion and EP additive creates a passive film on friction surfaces before friction occurs, high drop point, 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, sugar & 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. Lithium complex thickener used to maintain their consistency and EP protection even with high levels of *industrial & sea salt water contamination*. Provide a heavier Oil film for applications with excessive loading at High, Medium & Slow Speed at high temperature. Lubrication at temperatures >200°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, vibration & high shock loads are there and gives outstanding performance in arduous such as: Paper, Steel, Sugar, Marine, Mining, Automotive & Industrial applications. **The synthetic base oils used are in particular: PAO (PolyAlphaOlefin)**
Synthetic greases are composed of 100% synthetic base oil which provides the longer re-lubrication.

APPLICATIONS

- Versatile applications for Sugar mills bearings, Steel, Paper, Cement mill journals, chemical plants, textile & construction is recommended for applications where grease is exposed to very wet conditions and heavy duty plain and rolling element bearings were operating environments have heavy load, high temperature, shock load, where areas were extensive water contact or presence of water is there Rolling bearings in textile, Paper processing, Hot Dryers, Bearings for pre-heater rollers and drying machines applications, Wind Turbines, Mining and Process plants, where crushers VSI, screens and kilns are operated at high temperatures.
- Antifriction bearings operating at high speeds (10,000 rpm and greater)
- Large electric motors & pumps: Small, medium and large, Industrial fans, including high speed fans
- Rolling bearings in textile, paper processing, Hot Dryers, ID Fans, FD Fans, Blowers, Boilers and Bearings for pre-heater rollers & drying machines applications.
- Applications with medium and high speed ball roller bearings operating at medium and high temperatures, High-temperature operations, VSI Crushers, pumps, conveyers.
- Bearings mounted Vertical shaft, Clutch release bearings applications: Kiln trucks and rollers, Water pumps Fleet, Construction, Industrial bearings.
- Excellent mechanical stability and resistance to softening ensures long lubricant life and prevents leak out of bearings even in the presence of water
- Roller Bearings operating under the combination of high speed, high temperature, high loads.

FEATURES / BENEFITS

- 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.
- 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.
- 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.

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 / Calendar Rolls Dry end – Paper manufacturing	
Roller Bearings – Work Rolls / Pre-heating Hot Rolling Mill	Soot Blower / Flue gas fan Chemical Recovery System	

PROPERTIES

GRADE	150	460 HD	1000 HD	1500 HD
NLGI	2, 1.5, 1	2, 1.5, 1	2, 1.5, 1, 0	2, 1.5, 1, 0
Colour & Appearance	Grey Black, Smooth & Tacky			
Thickener	Lithium Complex			
Solid Lubricants Wt. %	4 to 5 % MoS ₂ (moly)			
Base oil Type	synthetic (PAO)			
Viscosity @ 40°C	150	460	1000	1500
Work Penetration	265-310	265-310	265-310	265-310
Drop Point	+320	+320	+320	+320
Operating Temp °C	-20°C to 180°C	-20°C to 180°C	-20°C to 180°C	-20°C to 180°C
Water Washout	1% max	1% max	1% max	1% max
Weld Load	+315	+500 to 620	+620 to 800	+620 to 800

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