

SYNTH HT LCX-2 460, 680, 1000, 1500 HD

(Heavy Duty, High Temperature Water Resistance Grease)

DESCRIPTION:

SYNTH HT LCX-2 460, 680, 1000, 1500 HD is heavy duty grease formulated with lithium-complex thickener grease designed with premium high viscosity synergistic base oil to stand with water provide a heavier oil film for applications with excessive loading at slow and medium speed & high temperature. These greases contain small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement additive, antioxidants, anti-corrosion, rust inhibitors and EP additives. It possesses resistance to water washing 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.

APPLICATIONS

- **SYNTH HT LCX-2 460, 680, 1000, 1500 HD** grease is recommended where continuous Low & Medium 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, 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.

Additional Information: In order to minimize potential incompatibilities when converting to new grease, all previous lubricant 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.

ADVANTAGES & BENEFITS

- Lithium complex thickened grease formulated with a premium additive system and a combination of synergistic base oils.
- Superior performance properties over a wide operating range **-20°C to 180°C (-5° to 356°F)**.
- 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.

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 SYNTH HT LCX-2 HD

GRADES	460	680	1000	1500
NLGI Consistency	0, 1, 1.5 & 2			
Appearance & Color	Smooth, Buttery & tacky / Golden Brown, Green, Blue or Beige			
Thickener	Lithium - Complex			
Base Oil Type	Synergistic base oil (Semi-Synthetic)			
Solid Lubricants	Mox-Active + PAO Ester			
Drop Point, °C min	+ 280	+ 280	+ 280	+ 280
Work Penetration	265 - 385	265 - 385	265 - 385	265 - 385
Operating Range, °C	40°C to 180°C	40°C to 180°C	40°C to 180°C	40°C to 180°C
Viscosity at 40° Cst	460	680	1000	1500
Copper strip corrosion	1a	1a	1a	1a
4-Ball Weld Load kgs	+620 to 800	+620 to 800	+800	+800

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