

MOLY HT LCX-2 220 PLUS HD & MOLY 777 LCX-2 460 HD

(Semi Synthetic heavy duty grease)

(Certified & Approved by NSF Organization from USA, Company No: C077291 NSF registration No: 166844)

PRODUCT DESCRIPTION:

MOLY HT LCX-2 220 PLUS HD & MOLY 777 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. MOLY HT LCX-2 220 PLUS HD & MOLY 777 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 & 4% to 5% molybdenum disulphide (MoS₂) 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. 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 Sponge Iron plants, Metal (steel, aluminum, copper), Cement, Sugar, Paper & Chemicals:** It is recommended for heavily loaded plain & anti-friction bearings applications in severe environments where continuous low & medium speed bearings with high loads intermittent with very high temperatures are experienced under heavy shock loads, copious water presence and at high vibration levels for heavily loaded applications such as in slip seal in kilns of sponge plants, Couplings, Fibrizer, ID & FD Fan bearings & pins in sugar plants where non-melting grease is required. It is a pumpable grease when working under high hydraulic pressure generated by the pumps of centralized and Individualized systems.

BENEFITS & FEATURES

- 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** 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. Reducing grease consumption & low cost gives immediate monetary savings. Highly loaded bearings in water / steam contaminated environments, No need for external cooling. 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 / Calendar Rolls Dry end – Paper manufacturing	
Roller Bearings – Work Rolls / Pre-heating Hot Rolling Mill	Soot Blower / Flue gas fan Chemical Recovery System	

PROPERTIES

NLGI GRADE-2	MOLY HT LCX-2 220 PLUS HD	MOLY 777 LCX-2 460 HD
Appearance	Dark Grey & Smooth Tacky	Dark Grey & Smooth Tacky
Thickener Type	Lithium-Complex	Lithium-Complex
Solid Lubricants	4 to 5 % MoS ₂ , EP & AW, Mox-Active (Organo Molybdenum Complex)	
Viscosity @ 40°C	220	460
Work Penetration	265-295	265-295
Drop Point	+280	+280
Operating Temperature	-20°C to 180 °C	-20°C to 180°C
Water Washout	1% max	1% max
4-Ball Weld Load in kgs	500	800
Rust test	Pass	Pass
Copper corrosion	1a	1a
NSF registration No:	166843	-

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