

SYNTHETIC HT LCX-2 100, 220, 460, 1000 HD (Synthetic + Lithium Complex)

DESCRIPTION

SYNTHETIC HT LCX-2 100, 220, 460, 1000 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 high viscosity synthetic **PAO (PolyAlphaOlefin)** base oils to withstand water. Provide a heavier Oil film for applications with excessive loading at Slow & High Speed & 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 are composed of 100% synthetic base oil which provides the lubrication.

APPLICATIONS

- Versatile applications for Sugar mills bearings, Steel, Paper mill bearings (dry end), 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 where 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.

BENEFITS

- Developed for lubrication of roller bearings operating at high speeds as well as bearings subjected to severe cold, outstanding water resistance minimizes water wash off.
- Suitable for all year lubrication of outdoor fans, electrical motors, pumps bearing, Hot Dryers, Bearings for pre-heater rollers & drying machines High temperatures up to -40°C to 180°C and where long re-lubrication intervals are desired, Oxidation stability extends life even at elevated temperatures
- EP Characteristics for excellent wear protection & Good Rust preventive properties.

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 HD

SPECIFICATIONS	SYN HT LCX-2 100	SYN HT LCX-2 220	SYN HT LCX-2 460 HD	SYN HT LCX-2 1000 HD
NLGI	2	2, 3	2, 1.5, 1	2
Thickener type	Lithium-complex			
Appearance	off white	off white	off white	off white
Viscosity at 40°C	100 Cst (PA0)	220 Cst (PA0)	460 Cst (PA0)	1000 Cst (PA0)
Operating Temperature	-40°C to 180°C	-40°C to 180°C	-40°C to 180°C	-40°C to 180°C
Dropping Point	280	280	280	280
Worked Penetration	265-295	265-295	265-310	265-295
Water wash out	1% max	1% max	1% max	1% max
4 Ball EP Weld Load	315	315	+620 to 800	+620 to 800

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.

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