

## PD LCX-3, PD LCX-333 & PD LCX-2 & PD LCX-222

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*(High Temperature grease with Synergetic base oil + Lithium-Complex + Mox-Active special German technology & Special EP Additive)*

### DESCRIPTION:

**PD LCX-3, PD LCX-333 & PD LCX-2, PD LCX-222** grease is formulated with lithium-complex thickener designed with premium viscosity synergistic base oils to stand with water provide a heavier oil film for applications with excessive loading at slow and high speed & high temperature **PD LCX-3, PD LCX-333 & PD LCX-2, PD LCX-222** grease contains small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement additive with antioxidants, anti-corrosion, rust inhibitors and special EP additive. It possesses resistance to water washing and provides effective protection against rust and corrosion for both ferrous and non-ferrous metals for extreme pressures, vibration, shock loads, wide temperature range and components that are prone to fretting corrosion. These greases are specially developed for application areas where extensive water contact or presence is there and gives outstanding performance. These greases having excellent water repellent properties with flow and pump-ability for automatic centralized and individualized systems.

### APPLICATIONS

- These greases can be used in a wide range of industrial applications and are particularly recommended for application in electric-motor lubrication. **PD LCX-2 & PD LCX-3** grease is recommended for applications where continuous high speed motor bearings & hi-temperature intermittent very high temperatures are experienced. **PD LCX-222 & PD LCX-33** greases are specially developed for application areas where extensive water contact or presence is there and gives outstanding performance. These grease has excellent water repellent properties with flow and pump-ability for automatic centralized and individualized systems.
- Versatile Industrial Application: It is recommended for applications for various small & medium bearings and roller bearing where antifriction bearings operating at high speed & high temperature is required for general industrial lubrication where non-melting grease is required particularly heat resistance, such as home appliance motors and electrical components for automobiles, sealed for rolling element bearings, heavy duty electric motor ball, fans, air-conditioning bearings, automotive alternator/generator/starter motor bearings, Industrial fans, including high speed fans, Water pumps, rolling bearings in textile, paper processing and drying machines, Clutch release bearings, Vertical shaft and other wide range of industrial applications operating under medium and high speed ball (and roller) bearings operating at high and high temperatures. Kiln trucks and rollers, Centrifugal pumps & bearings, Fibirizer bearings, ID/FD & SA fans bearings, high speed motor bearings, furnace door bearings and kiln car wheel bearings.
- Marine & Offshore Applications: 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.
- Applications Industry: Steel, Stone Crusher (VSI, Cone, Jaw Crusher, Breaker, Screen), Cement, Sugar, Mining, Marine, Paper & Chemical.

## BENEFITS & ADVANTAGES

- 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
- Lithium complex thickened grease does not melt extremely high dropping point 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 (Sea Water)** and exposure to corrosive anti-icing agents
- Resistance to water washing, steam and humid conditions.
- Will not soften and leak from bearings exposed to high temperature, maintained despite cycling temperature conditions.
- Excellent flow and pump-ability for automatic centralized and individualized systems.
- 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.

## PROPERTIES

GRADES	PD LCX-3	PD LCX-333	PD LCX-2	PD LCX-222
NLGI	3	3	2	2
Colour & Appearance	Smooth, Buttery & Tacky, Red, Dark Blue, Golden Brown			
Thickener	Lithium - Complex			
Base Oil Type	Synergistic base oils			
Solid Lubricants	Mox-Active (Organo Molybdenum Complex) + PAO Ester			
Drop Point, °C min	+ 280	+280	+280	+ 280
Work Penetration	220 - 250	220-250	265-295	265 – 295
Operating Range, °C	-20 to 180	-20 to 180	-20 to 180	-20 to 180
Viscosity at 40°C Cst	220	220	220	220
Viscosity at 100°C Cst	18.7	18.7	18.7	18.7
Viscosity Index	94	94	94	94
4-Ball Weld Load in kgs	+315	400	+315	400
Copper Corrosion	1a	1a	1a	1a
Oil Separation 30 hrs @100°C	0.6 to 1.0 max	0.6 to 1.0 max	1.5 max	1.5 max
Roll Stability Consistency mm,	0	0	0	0
SKF Emscor Rust Test,	0, 0	0, 0	0, 0	0, 0
Water Washout, Loss %	3-5	3-5	3-5	3-5
Rust Protection test	Pass	Pass	Pass	Pass

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