

# PD LCX-222 (Semi-Synthetic Lithium Complex High Temperature grease)

*(Lithium Complex, Mox-Active special German technology, premium synergistic Base Oil with EP properties for Heavy duty & High Temperature in Marine & Industrial applications)*

## DESCRIPTION:

PD LCX-222 is a high performance & high temperature semi-synthetic grease especially for marine & industrial applications where extensive water contact or presence is there and gives outstanding performance. PD LCX-222 formulated lithium-complex thickener and high viscosity synergistic (semi-synthetic) base oils and also contains small dosage of synthetic (PAO) ester additive, special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement friction modifier additive creates a passive film on friction surfaces before friction occurs 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. It has excellent flow and pump-ability for automatic centralized and individualized systems.

## PROPERTIES

GRADES	PD LCX-222
NLGI	2
Base oil Type	Synergistic base oils (Semi- Synthetic)
Colour & Appearance	Dark Blue & Smooth, Buttery, Sticky & Extra Tacky
Thickener	Lithium - Complex
Drop Point, °C min	+ 280
Solid Lubricants	Mox-Active + PAO Ester
Work Penetration	265 - 295
Operating Range, °C	-20°C to 180°C
Viscosity at 40° Cst	220
4-Ball Weld Load in kgs	+400
Copper Corrosion	1a

## APPLICATIONS

- PD LCX-222 grease is recommended for applications where continuous high speed motor bearing from 2000 to 8000 rpm & hi-temperature intermittent very high temperatures are experienced.
- **Recommended for application:** Pallet Mill in Animal feed industry, Centrifugal pumps & bearings, ID/FD & SA fans bearings, high speed motor bearings, furnace door bearings and kiln car wheel bearings and for general industrial lubrication where non-melting grease is required. It can also be used in ambient temperature applications such as roll neck bearings where high resistance to water washing is needed and high-speed motor bearing.
- **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:** Animal Feed Mill, Steel, Stone Crusher (Breaker, Screen), Cement, Sugar, Mining, Marine, Paper & Chemicals.

## **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.

### **POWERMAXX LUBE INDIA**

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