

## PTFE HT LCX-222 (PTFE synthetic high temperature grease)

*(Synthetic base oil + Synthetic Ester + Lithium-Complex Soap + PTFE + Special EP Additive)*

*(High performance PTFE fortified lithium based grease)*

**DESCRIPTION:** PTFE HT LCX-222 is a synthetic multi-purpose lithium complex soap grease with combination of synthetic ester & synthetic base oil charged with PTFE. It also contains 5% white solid lubricants and special EP additives which provide optimum extreme-pressure properties. It has excellent resistance and water washout, rust and corrosion. PTFE (Polytetrafluoroethylene) has unique combination of properties: weather able, high temperature resistance, a low coefficient of friction and non-adhesive, hence very effective against back gliding. Free of heavy metals, in compliance with reach regulation. PTFE HT LCX-222 is a unique high-performance and high-temperature lithium based grease reinforced with PTFE. PTFE HT LCX-222 deposits a fine, tenacious, clinging film on the applied metal surface and the innumerable micro particles of PTFE act as tiny ball bearings that help minimize friction and temperature buildup. The presence of PTFE in PTFE HT LCX-222 helps propagate smoother movement between movable and interfacing parts even at high speeds and temperatures.

### APPLICATIONS:

- **Sugar Mills:** Electrical Motor Bearings, Cutters, Levelers, Pre-levelers, Disintegrators, Gear Couplings, Fibrizers bearings, Centrifugals, Pneumatic Valves Cylinders. ID Fans etc.
- **Cement Industry:** Rotary Kiln Car Bearings, Valve Gland Nuts, ID Fans, Electrical Motors, Crushers, Dryers, Vibratory Screens. Air Compressors. Cooler Fans and Motors etc.
- **Textile Industry:** Top Rollers and Bushes of DO/2s and DO/6, RSB Draw Frames, Ring Frames, Air Motors and Electrical Motors, High Speed Spindles etc.
- **Wind Mills:** Rotor Main Bearings, Generator Bearings, Blade Pitch Bearings etc.
- **Paper Mills:** Pneumatic Cylinder Drives used on Control Valves, Valve Studs and Bolts, Chain Motors, High Speed Electrical Motors, Dryers, Pulp Washers, Fan Bearings, Coal Crusher Bearings and several Paper Machine Applications etc.
- **Power Plants:** ID Fans, Screw Conveyor Coal Feeder Bearings, Motors, High Speed Applications etc. **Glass Industry:** Conveyor Belts, Pusher Bearings, Motors etc.
- **Steels & Aluminum Plant:** Motors, Lift Truck Wheel Bearings. Ropes, Gantry Crane Bearings, Lubrication of Conveyors, ID Fan Bearings, High Speed Blowers, Motors, Grinding Mills. Crushers, Shears. Rolling Mills. Travelling Cranes, Mechanical Presses, Cams, Toggle Joints. Slides ways etc. **Construction Equipment, Auto & Truck:** Chains of Forklifts, Pin Bush, Chassis, Wheel & Hub Bearings, Stone Crushers VSI bearings, Cone etc.
- **Centralized Industrial Greasing System:** In several other applications in general such as Compressors, Heavy Duty Motors, Power Generating Alternators, Cooling Tower Motors, Irrigation Pumps, Marine Parts etc to achieve significant reduction in noise, vibration and operating temperature.

## ADVANTAGES, BENEFITS & FEATURES:

*SYNTH PD synthetic grease provides the following advantages & benefits when compared to other mineral oil greases intended for similar service.*

- Excellent thermal stability by mechanically and chemically, providing effective lubrication and gives excellent performance at both high and low temperatures **-40°C to 240°C** for all metal to metal lubrication.
- Excellent resistance to water wash out & Self-cleaning lubricant which does not gather dust.
- Resists of oil separation and does not migrate from hot surfaces.
- Better bearing protection and lower grease consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals & also reduce energy consumption. High protection against seizure and wear, avoiding expensive repairs.
- Reduced wear under heavy shock loads & vibration for good equipment reliability.
- Protection against rust and corrosion, resistance to water washout for equipment protection and outstanding structural stability in the presence of water
- Good pump ability in centralized systems, Effective leakage control.
- Excellent wear protection under heavy loads and high temperatures
- Excellent flow and pump-ability for automatic centralized and Individualized systems.
- Outstanding protection against rust and corrosion & High Di-Electric strength
- PTFE has a very low static/gliding friction ratio hence very effective against back gliding.

### PROPERTIES OF PTFE HT LCX-222

NLGI grade available	2	0	00	000
Base Oil Type	Synthetic base oil (PAO) & Synthetic Ester			
Solid lubricants %	5% white solid lubricants			
Colour & Appearance	Blue & Golden Brown (Smooth & Tacky)			
Thickener	Lithium Complex + PTFE (Polytetrafluoroethylene)			
Work Penetration	280	325	415	460
Viscosity at 40°C	100 - 220 Synthetic base oil (PAO)			
Drop Point	+280			
4 Ball Weld Load	500	500	500	500
Temperature Range °C	-40°C to 240°C			
Water Washout	1.67%	1.35 %	1.35 %	1.35 %
Oil Separation	1.21	0.4	0.3	0.2



**POWERMAXX LUBE INDIA**

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