

MOLY LI-CAM EP 150, 220, 460, 680, 1000, 1400 HD

(Heavy-Duty High-Performance Water Resistance Grease)

DESCRIPTION:

MOLY LI-CAM EP HD is heavy-duty high-performance water resistance grease blend with very high viscosity special synergistic base oil, Lithium-Calcium complex soap thickener with special EP additive and 12% to 13% solid lubricants for use in a wide range Industrial application. It contains small dosage of synthetic (PAO) ester additives with white solid lubricants Mox-Active (Organo Molybdenum Complex) technology an improvement friction modifier additive creates a passive film on friction surfaces before friction occurs, optimum wear protection and an extremely low coefficient of friction even under extreme pressures, heavy vibrations & high shock loads.

MOLY LI-CAM EP HD has been formulated to environmental protection and engineering norms with special solid lubricants & non-toxic additive with eco-friendly and chemistry provides thicker and stronger film stability, where bearings are exposed to high shock loads and heavy vibration, high temperature, high medium & low speed bearings both exist in indoors and outdoors in both cold and high temperature applications and gives high protection by minimizing metal-to-metal contact and reduces friction, wear at minimal consumption. All of this turn reduces maintenance cost and extend the life of equipment and friction elements avoiding seizure & expensive repairs.

MOLY LI-CAM EP HD grease has excellent flow and pump-ability when working under high hydraulic pressure generated by the pumps of centralized and Individualized systems at high temperature and gives excellent lubrication for extended bearings life and gives longer relubrication interval periods and over a wide range of temperatures in bearings & gears applications.

APPLICATIONS

- **MOLY LI-CAM-0 & 1 EP HD** provide good low temperature pump ability and are suitable for centralized lubrication and other applications where low temperature performance is required.
- **MOLY LI-CAM-2 EP HD** is recommended for applications in heavy duty plain and rolling element bearings were operating environments have heavy loaded bearing at slow & medium speed, low temperature, high shock loads where areas have extensive water contact or presence of water is there, such as Paper, Steel, Sugar Mills, Mining, Marine & Stone jaw crusher, bushings and pins under normal operating conditions.
- **MOLY LI-CAM-00 EP HD** is used in many industrial and constructions applications: Wire Ropes, Marine, Off-shore & Ship crane Ropes, axles, ball joints, universal joints, kingpins, bushings, cement, mining, quarrying, gear cases, chain cases because of leakage due to worn or missing seals. It is also suitable for the lubrication of enclosed gears and bearings in poorly sealed gear cases on most underground mining machinery with the exception of electric motor bearings.
- **MOLY LI-CAM-1/0 EP 1000 & 1400 HD** has been designed to lubricate: - Journal, Roller & Sleeve bearings, Transmission brasses, Crown wheels, Transmissions open gears & Crystallizer transmission gears & Rotating dryer gears with the capability to resist the permanent attack of pollutants as steam vapour, water, juice and trash.

BENEFITS & FEATURES

- Low consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals.
- High protection against seizure and wear, avoiding expensive repairs.
- Highly loaded bearings in water / steam contaminated environments, No need for external cooling.
- Excellent flow and pump-ability for automatic centralized and Individualized systems.
- Thermally stable, can withstand high shock loads, and minimizing metal to metal contact.
- Good sealing properties against hot water, cane juice and dirt-laden environments.
- High drop point ensures extended operating temperature range upto -20°C to 160°C.
- Non-bituminous, non-toxic additive and Environment friendly.
- Elimination of accidents occurring by spills of asphaltic oils & other graphite greases and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.

PROPERTIES

GRADE	150	220	460	680	1000	1400
Available NLGI Consistency	2, 1, 0, 00					
Base Oil Type	Synergistic base oil					
Appearance & Color	Smooth & Slight Tacky & Dark Grey					
Thickener Type	Lithium-Calcium/EP & AW					
Solid Lubricant	12% to 13% Solid lubricants + PAO Ester + Mox-Active (Organo Molybdenum Complex)					
NLGI Consistency	2	2	2 & 1	2 & 1	2 & 0	2 & 0
Penetration, Worked	265-295	265-430	265-340	265-340	265-430	265-430
Dropping Point	+180	+180	+180	+180	+180	+180
Viscosity Cst @ 40°C	150	220	460	680	1000	1400
Copper strip corrosion	1a	1a	1a	1a	1a	1a
4-Ball Weld Load	+315	+315	+500 to 620	+620 to 800	+620 to 800	+620 to 800
Four ball Wear Scar Diameter, mm	0.40	0.40	0.40	0.40	0.40	0.40
EMCOR Rust Protection	0,0	0,0	0,0	0,0	0,0	0,0
Water Washout	max 2.5%	max 2.5%	max 2.5%	max 2.5%	max 2.5%	max 2.5%
Operating Range	-20 to +160	-20 to +160	-20 to +160	-20 to +160	-20 to +160	-20 to +160

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