

# MOLY HT LCX-2 680 HD & 1000 HD (Mining & Heavy duty bearing)

## PRODUCT DESCRIPTION

MOLY HT LCX-2 680 HD & 1000 HD is molybdenum disulfide high temperature grease designed for mining, marine & industrial applications. MOLY HT LCX-2 680 HD & 1000 HD represents a new development in longer-lasting lubrication than conventional greases, high temperature lubrication grease are manufactured using highly refined selected high viscosity base oils, lithium complex thickener, 3% to 4% molybdenum disulphide (MoS<sub>2</sub>) for better high shocks load carrying, high drop point, extreme temperature properties along with compatible friction, EP additive, rust and corrosion protection & oxidations inhibitors. The “moly” provides a reserve protection should the lubricant be squeezed from the bearing surface. It has excellent water resistance washout, assures long re-greasing intervals, extend service life, reduces maintenance costs.

## APPLICATIONS

- MOLY HT LCX-2 680 HD & MOLY HT LCX-2 1000 HD for a wide range of applications including those found in Mining & Marine industry in heavy duty construction, earthmoving, mobile equipments for heavily loaded off-highway & off-road construction equipments (bucket pins, bucket loaders, backhoes, articulated trucks), heavy duty fleets (fifth wheels, kingpins, slack adjusters, pins, and bushings), mining equipment (above- and below-ground bucket loaders) and industrial bearings.
- Heavy duty, slow moving plain and rolling element bearings operating in the severe environments under heavy shock loads, high & low temperatures, copious water presence and at high vibration levels for heavily loaded applications.
- Operating under higher temperature range from -20°C to +180°C in severe service applications, and also confers excellent mechanical stability so that the grease structure does not break down in service.
- Heavy duty applications: Steel, Sugar Mills, Marine, Mining & Construction equipments, Power generation, Paper & Chemical industry applications where severe operating and climatic conditions are experienced.

## BENEFITS & FEATURES

- High base oil viscosity to provide excellent load carrying performance.
- Excellent EP properties leading to high shock load resistance
- Excellent mechanical stability thereby addressing high vibrating operations.
- High anti-rust and anti-corrosion protects bearing surface even when the grease is contaminated with water.
- Good lubrication even in presence of water, high resistance to water washout for equipment protection.
- Extended bearing life in wet environment for reducing maintenance costs and unanticipated downtime.
- High drop point enabling operations at high temperatures, good pump ability in centralized systems.

## PROPERTIES

NLGI GRADE-2	MOLY LCX-2 680 HD	MOLY HT LCX-2 1000 HD
Appearance	Dark Grey & Smooth Tacky	Dark Grey & Smooth Tacky
Thickener Type	Lithium-Complex	Lithium-Complex
Solid Lubricants	3% to 4 % MoS <sub>2</sub> , EP & AW	3% to 4 % MoS <sub>2</sub> , EP & AW
Viscosity @ 40°C	680	1000
Work Penetration	265-295	265-295
Drop Point	+280	+320
Operating Temperature	-20°C to +180°C	-20°C to +180°C
Water Washout	1% max	0.8 max
4-Ball Weld Load in kgs	+620 to 800	+620 to 800
Rust test	Pass	Pass
Copper corrosion	1b	1b

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