

CS HTXX-2 220, 460 HD (Heavy Duty Calcium Sulfonate complex grease)

(Calcium Sulfonate Complex / Mox-Active / PAO Ester for water resistance & Heavy Duty Applications)

DESCRIPTION:

CS HTXX 220 & 460 HD greases is formulated with quality synergistic (semi-synthetic) base oil stocks advanced calcium sulfonate complex thickener technology for better high load carrying, extreme temperature properties along with compatible friction modifier additives such as Mox-Active & synthetic (PAO) Ester creates a passive film on friction surfaces before friction occurs, an extremely low coefficient of friction even under extreme pressures. Compared to conventional soap-base thickeners (i.e. lithium, aluminum, calcium soaps), the Calcium Sulfonate Complex thickener used in excels in water saturated environments, providing rust protection between long re-lubrication intervals. These greases provide a balanced combination of water washout and water spray-off resistance, as well as excellent corrosion protection, in these severely wet environments. Calcium sulfonate thickeners used to maintain their consistency and EP protection even with high levels of water contamination.

APPLICATIONS

- CS HTXX 220, 460 HD greases are recommended for heavily loaded and high water saturated applications in the Marine Industry, Offshore, Heavy duty Off-Highway equipment, Steel, Paper Mill, Mining, Construction and Quarry equipments.
- **Versatile Applications include:** Wire ropes, Boom pins, and crane pulleys, Anchor winches, Deck equipment bearings, Cargo door hinges, Thruster and rudder bearings, Open gear or rack and pinion systems, Ladle turret bearings, Continuous casters, Hot rolling work roll bearings, roll necks, Couch, press and breast rolls, Wood pellet mill roll bearing, Stone crusher VSI bearings, Cone & jaw crushers.

PROPERTIES

SPECIFICATIONS	CS HTXX 220 HD	CS HTXX-2 460 HD
NLGI GRADE Available	1, 1.5 & 2	1, 1.5 & 2
Thickener Type	Calcium Sulfonate Complex	
Solid Lubricants	Mox-Active & PAO Ester	
Colour & Appearance	Brown / Smooth buttery & tacky	
Worked Penetration	265-340	265-340
Dropping Point °C	+320	+320
Viscosity @ 40°C Cst	220 Cst	460 Cst
4-Ball Weld Test	+400	+800
Water Washout	0.8 max	0.5 max
Operating Temperature °C	20°C to 180°C	20°C to 180°C

FEATURES & BENEFITS

- Excellent extreme-pressure protection and load-carrying ability for equipment protection under heavy and shock loading and excellent high temperature oil bleed control.
- This grease is for bearing lubrication for operations up to 180°C with proper re-greasing intervals.
- Longer re-lubrication intervals, extends bearing life & reducing grease consumption.
- Thickener does not melt extremely high dropping point will not soften and leak from bearings exposed to high temperature. Resistance to water washing, salt water, steam and humid conditions,
- High-pressure loading carrying capacity, good seals & pump ability consistency.
- Excellent thermal and mechanical stability and outstanding protection against rust and corrosion.
- High protection against seizure and wear, avoiding expensive repairs, Effective leakage control.

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