



PROTEC CSX-460

PRODUCT DESCRIPTION:

PROTEC CSX-460 is a high-performance, heavy-duty lubricating grease formulated with a calcium sulfonate complex thickener system and high-quality heavy mineral base oil. The unique structure of the calcium sulfonate complex thickener offers a high dropping point, exceptional extreme-pressure and anti-wear properties, excellent rust protection, superior mechanical stability, and outstanding resistance to water washout. This grease is designed to perform reliably under demanding conditions.

APPLICATIONS

PROTEC CSX-460 grease is used in industrial equipment operating under unfavorable conditions involving water contamination, high loads and/or high temperatures, plain and rolling element bearings operating in corrosive environmental conditions, rolling mills, hot roll cables, continuous casters, ingot buggies and slab mills, steel mill roller bearings, conveyors and gears, marine and heavy mobile equipment exposed to salt water, paper machine wet- and dry-end bearings and hot calendar stacks, automotive wheel bearings and chassis parts.

PRODUCT ADVANTAGES

- The operating temperature range is from -25 to 180°C
- High-load carrying capacity
- Good water resistance properties
- Good oxidation and thermal stability
- Good mechanical stability
- Good rust and corrosion protection
- Excellent EP and anti-wear properties

TYPICAL PROPERTIES:

PARAMETERS	TEST METHODS	TYPICAL VALUE			
NLGI Grade	-	0	1	1.5	2
Thickener Type	-	Calcium Sulfonate Complex			
Appearance	Visual	Smooth & Homogeneous			
Color	Visual	Brown			
Work Penetration @25°C	ASTM D217	355-385	310-340	305	265-295
Copper Strip Corrosion For 24hrs @100 °C	ASTM D4048	1b			
Dropping Point °C, Min	ASTM D2265	240	260	260	260
Water Washout Resistance %Wt. @79°C	ASTM D1264	1	1	1	0.5
Four Ball Weld Load, Kgf, Min	ASTM D2596	500			
Four Ball, Wear Scar, dia, mm	ASTM D2266	max 0.6			
Operating Temperature Range °C	INTERNAL	-25 to 180			
Base Oil Viscosity @40°C (Cst)	ASTM D445	460	460	460	460

DISCLAIMER: The test data provided above is for reference purposes and is not a strict specification, as variations within acceptable production tolerances may occur. Phoenix reserves the right to update or revise this test data. For the most accurate and up-to-date information, please consult the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website Phoenixlubricants.com