

# CERAN HRM 460



Grease



Extreme-pressure water resistant high temperature **“NEW GENERATION”** calcium sulfonate complex grease.

## APPLICATIONS

**Multi purpose heavy duty water resistant grease Applications in steel industry**

**Recommendation**

- **CERAN HRM 460** is a heavy duty extreme pressure grease, designed for working roll bearings in Hot Rolling Mills and Continuous Casting Machines in the steel Industry, running under high temperatures, high loads and ingress of water.
- **CERAN HRM 460** helps to cope with the problem known as “downtime-induced rust” coming from the ingress of cooling water into the bearing and occurs when the bearing is at a standstill condition, while the rolls are being inspected.
- **CERAN HRM 460** replaces CERAN HVA with backward compatibility.
- **CERAN HRM 460** is also suitable as EP multi purpose grease, in various other industrial applications where water is in frequent contact with the grease.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic dispensing system.

## SPECIFICATIONS

- ISO 6743-9: L-XBFIB 2
  - DIN 51 502: KP2R -25
- Conforms to
- DANIELI Standard 1: A02.2c (Type 3), A02.2d (Type 26)
  - SMS DEMAG SN 180-1 Lubricant No. 3
  - Primetals, Siemens VAI, URALMASH, NKMZ and others (please refer to your technical representative).

## AVANTAGES

**True multi purpose  
High loads  
Water resistant  
High temperatures  
Anti corrosion  
No harmful substances**

- Thanks to its very sophisticated formula and performance headroom, **CERAN HRM 460** meets the most stringent requirements set by industrial bearing manufacturers.
- Excellent thermal and mechanical stability. It regains its original texture after cooling to ambient temperature.
- Remarkable load resistance thanks to its inherent high extreme pressure and anti-wear properties.
- Extraordinary water resistance, no significant loss of consistency is observed even with high amounts of water ingress in the grease.
- Improved oxidation resistance allowing extended re-greasing intervals.

TYPICAL CHARACTERISTICS	METHODS	UNITS	CERAN HRM 460
Soap/thickener		-	Calcium sulfonate
NLGI grade	ASTM D 217/DIN 51 818	-	2
Color	Visual	-	Brown
Appearance	Visual	-	Smooth/tacky
Operating temperature range		°C	- 25 to 180
Penetration at 25°C	ASTM D 217/DIN51 818	0.1 mm	265-295
Four ball weld load	ASTM D 2596	kgf	> 400
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0-0
Dropping point	IP 396/NF T 60 102 C	°C	> 300
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	mm <sup>2</sup> /s (cSt)	420

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS  
INDUSTRIE**

16-11-2017 (supersedes 12-10-2017)  
CERAN HRM 460  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.  
A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser [www.quick-fds.com](http://www.quick-fds.com).