

# CERAN MM



Grease



**Extreme-pressure water resistant all temperature calcium sulfonate complex grease.**

## APPLICATIONS

**Multi purpose heavy duty water resistant grease. Off-road applications in civil engineering and industry.**

Recommendation

- **CERAN MM** is a true multi purpose grease, formulated for lubrication of loaded slide-,ball-, and roller- bearings, (wheelbearings), universal joints, chassis, and various shock loaded or vibrating components in industry, transport, marine and off shore applications operating in very severe wet, dusty and/or dry conditions.
- **CERAN MM** is pre-eminently suitable as EP multi purpose grease, in "off road" applications where water is in frequent contact with the grease, e.g. Pin-bushings, crown, and caterpillar wheels on excavators.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

## SPECIFICATIONS

- ISO 6743-9: L-XCFIB 2
- DIN 51 502: KP2R -30

## ADVANTAGES

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

- Thanks to its very sophisticated formula and performance reserves, **CERAN MM** performs well at very low as well as high temperatures.
- Extraordinary water resistance, no significant loss of consistency is observed even with high amounts of water entering the grease.
- Excellent anti-oxidation and anti-corrosion properties thanks to the very nature of the calcium sulfonates, also in the presence of sea water.
- **CERAN MM** does not contain lead, or other heavy metals considered harmful to human health and the environment.

TYPICAL CHARACTERISTICS	METHODS	UNITS	CERAN MM
Soap/thickener		-	Calcium sulfonate
NLGI grade	ASTM D 217/DIN 51 818	-	2
Color	Visual	-	Brown
Appearance	Visual	-	Smooth
Operating temperature range		°C	- 30 to 180
Penetration at 25°C	ASTM D 217/DIN51 818	0.1 mm	265 - 295
Four ball weld load	ASTM D 2596	kgf	500
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0 - 0
Dropping point	IP 396/NFT 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)	110

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
31-10-2007 (supersedes 21-12-2004)  
CERAN MM  
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).