

# CERAN MM



Grease



**A Calcium sulfonate complex grease. Extreme pressure additive. High temperature. Water resistant**

## APPLICATIONS

**Multi-purpose grease, water resistance, very high quality. "All-terrain" applications, civil engineering, snow-compacting**

- **CERAN MM** is a multi-purpose grease specially developed for lubrication of ball, roller and plain bearings (wheel bearings), standard joints, chassis, and all components subjected to heavy duty vibration and shocks in the haulage industry, off-shore and marine conditions, and all applications working under harsh conditions, exposed or not to water and dust.
- **CERAN MM** is also an EP multi-purpose grease for all "all-terrain" applications in frequent contact with water, such as: ski slope compactors, the wheels and teeth of excavator tracks.
- Take care not to contaminate the grease when applying it, with dust or other contaminants. An air-powered pump or cartridge system should be used for lubricant application.

Recommendation

## PERFORMANCE

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

## CUSTOMER BENEFITS

**Multi-purpose grease for heavy duty applications, water resistant and anti-corrosion properties, for low and high temperature use**

**Toxic substance-free (heavy metals)**

- Thanks to its sophisticated formula and very high performance, **CERAN MM** may be used at very low and at high temperatures.
- Exceptionally water resistant. No significant loss of consistency observed even with very large quantities of water in the grease.
- Excellent anti-oxidation and anti-corrosion properties due to the chemical nature of the calcium sulfonate, even when exposed to seawater.
- **CERAN MM** contains no lead, or other heavy metal considered as harmful to human health or the environment.

## CARACTERISTICS

|                                       | METHODS                               | UNITS                    | CERAN MM          |
|---------------------------------------|---------------------------------------|--------------------------|-------------------|
| Thickener                             |                                       | -                        | calcium sulfonate |
| NLGI grade                            | ASTM D 217/DIN 51 818                 | -                        | 2                 |
| Colour                                | Visual                                | -                        | Yellow ochre      |
| Appearance                            | Visual                                | -                        | Stringy/adhesive  |
| Duty temperature range                |                                       | -                        | - 30 to 180       |
| Penetration at 25 °C                  | ASTM D 217/DIN51 818                  | 0.1 mm                   | 265-295           |
| 4 ball EP test                        | ASTM D 2596                           | kgf                      | 500               |
| Anti-rust performance SKF-EMCOR       | DIN 51 802/IP220/NFT 60-135/ISO 11007 | rating                   | 0-0               |
| Drop point:                           | IP 396/NFT 60 102 C                   | °C                       | >300              |
| Basic oil kinematic viscosity at 40°C | ASTM D 445/DIN 51 562-1/ISO 3104/ IP7 | mm <sup>2</sup> /s (cSt) | 110               |

The values for the data given in this table are typical values given by way of information only

**TOTAL LUBRIFIANTS**

September 2005

CERAN MM

1/1



This lubricant used in accordance with our recommendations and for the application for which is intended carries no particular risk. A safety data file conforming to the requirements of current EC legislation is available on [www.quick-fds.com](http://www.quick-fds.com) and from your local trade consultant.