

CERAN XM 100



Grease



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

APPLICATIONS

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

- **CERAN XM 100** is made of the **NEW GENERATION** calcium sulfonate complex soap designed by TOTAL Lubrifiants. This new soap has enhanced properties in terms of water resistance, load capacity, thermal resistance, anticorrosion properties while keeping a very high level of pumpability and ability to lubricate well in case of high speeds.
- **CERAN XM 100** is suitable for the lubrication of all kinds of components subject to high loads, shocks, working in conditions where the grease is in frequent contact with water (even sea water due to enhanced antirust performances) in transport, marine and offshore applications.
- **CERAN XM 100** is suitable for the lubrication of loaded slide, ball- and roller-bearings (wheel bearings) in **fans** and **paper industry**. **CERAN XM 100** is pre-eminently suitable as **EP multipurpose grease in off-road applications** such as pin-bushings, crown and caterpillar wheels on excavators.
 - **CERAN XM 100** is suitable for use in centralized greasing systems.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system.

SPECIFICATIONS

- ISO 6743-9: L-XCFIB1/2
- DIN 51 502: KP1/2R-30

ADVANTAGES

True multi purpose.
Shock loads.
Water resistant.
Anti corrosion.

NEW GENERATION allowing use in high speed applications.

No harmful substances.

- The **NEW GENERATION** of calcium sulfonate complex soap developed by TOTAL Lubrifiants allows **CERAN XM 100** to work well in bearings even if rotation speeds are high. **CERAN XM 100** presents outstanding performances even at high nDm where the **NEW GENERATION** keeps all benefits in terms of corrosion protection, bearings lifetime, high loads and thermal resistance.
- Excellent anti-oxidation and anti-corrosion properties thanks to the excellent behaviour of the calcium sulfonates, also in the presence of sea water.
- The **NEW GENERATION** of calcium sulfonate complex soap allows to keep outstanding **CERAN XM 100** performances even in case of high speed applications where normally polyurea or lithium complex greases are requested.
- **CERAN XM 100** does not contain lead, or other heavy metals considered harmful to human health and the environment.

TOTAL LUBRIFIANTS
INDUSTRIE
18-02-2014 (supersedes 22-10-2013)
CERAN XM 100
1/2





TOTAL

TYPICAL CHARACTERISTICS	METHODS	UNITS	CERAN XM 100 (typical values)
Soap/thickener NLGI grade Color Appearance Operating temperature range Kinematic viscosity of the base oil at 40°C	ASTM D 217/DIN 51 818 Visual Visual ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	- - - °C mm ² /s (cSt)	Calcium sulfonate 1-2 Brown Smooth - 30 to 180 100
Mechanical stability			
Penetration at 25°C Penetration after 100 000 strokes Shell Roller 100 hours at 80°C Shell Roller 100 hours at 80°C + 10% water	ASTM D 217/DIN 51 818 ISO 2137 ASTM D 1831 mod ASTM D 1831 mod	0.1 mm 0.1 mm 0.1 mm 0.1 mm	280-310 +12 +8 +4
Thermal stability			
Dropping point Oil release 50 hours, 100 °C Oil release 168 hours, 40°C Oxidation stability at 99°C +-0.5°C Pressure drop after 100 hours Pressure drop after 500 hours	IP 396 ASTM D 6184 NF T 60-191 ASTM D 942	°C % % Psi Psi	> 300 1.5 0.5 5 12
Antirust properties			
EMCOR, distilled water EMCOR, synthetic sea water Copper corrosion, 24 hours at 100°C	ISO 11007 ISO 11007 ASTM D 4048	Rating Rating Rating	0-0 0-0 1b
Antiwear and EP properties			
Four ball wear (scar diameter) Four ball weld load	ASTM D2266 ASTM D2596	mm kgf	0.37 500
Cold properties			
Penetration at -20°C Flow pressure at -20°C Flow pressure at 1400 mbar Torque at -20°C Starting torque After 1 hour	ISO 13737 DIN 51 805 DIN 51 805 ASTM D 1478	0.1 mm mbar °C mN.m mN.m	199 419 -32 108 29

Above characteristics are mean values given as an information.