



# CERAN XM 100

## DESCRIPTION

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

## APPLICATIONS

**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-buschings, crown and caterpillar wheels on excavators.

**CERAN XM 100** is suitable for use in centralized greasing systems.

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. can be obtained from your local commercial adviser or down loaded at [ms-sds.totalenergies.com](https://ms-sds.totalenergies.com)

## SPECIFICATIONS

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ISO 6743-9: L-XCFIB1/2

DIN 51 502: KP1/2R-30

## ADVANTAGES

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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.

## RECOMMENDATIONS

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Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system.

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## TYPICAL CHARACTERISTICS

TYPICAL CHARACTERISTICS	METHODS	UNITS	CERAN XM 100
Soap/thickener		-	Calcium sulfonate Complex
NLGI grade	ASTM D 217/DIN 51 818	-	1-2
Color	Visual	-	Light brown
Appearance	Visual	-	Smooth
Operating temperature range		°C	- 30 to 180
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)	100
Penetration at 25°C	ASTM D 217/DIN 51 818	0.1 mm	280-310
Dropping point	IP 396	°C	> 300
Oil release 168 hours, 40°C	IP121	%	0.5
EMCOR, distilled water	ISO 11007	Rating	0-0
Copper corrosion, 24 hours at 100°C	ASTM D 4048	Rating	1b
Four ball wear (scar diameter)	ASTM D2266	mm	0.38
Four ball weld load	ASTM D2596	kgf	>400

Above characteristics are mean values given as an information.

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