



# CERAN XM 460

## DESCRIPTION

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



## APPLICATIONS

**CERAN XM 460** is made of the **NEW GENERATION** calcium sulfonate complex soap designed by TOTAL Lubrifiants. This new soap has enhanced properties in terms of water and thermal resistance, load capacity, anticorrosion properties while keeping a very high level of pumpability and ability to lubricate well in case of high loads.

**CERAN XM 460** is suitable for the lubrication of all kinds of components subject to high loads and temperatures, shocks, working in conditions where the grease is in frequent contact with water (even sea water due to enhanced antirust performances).

**CERAN XM 460** is suitable for the lubrication of bearings in steel plants (continuous castings and rolling mills) and in paper industry. **CERAN XM 460** is also suitable for the lubrication of hard wood granular presses and in all industrial applications under severe conditions (wet, loaded, high temperature, dust,...) namely mining and cement industries.

**CERAN XM 460** is suitable for use in centralized greasing systems.

## SPECIFICATIONS

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ISO 6743-9: L-XBFIB 1/2

DIN 51 502: KP1/2R -25

## ADVANTAGES

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The **NEW GENERATION** of calcium sulfonate complex soap developed by TOTAL Lubrifiants allows **CERAN XM 460** to present outstanding performances even at high nDm. This **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 460** performances even in case of high-speed applications where normally polyurea or lithium complex greases are requested.

**CERAN XM 460** 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.

## TYPICAL CHARACTERISTICS

PROPERTIES	METHODS	UNITS	CERAN XM 460
Soap / Thickener		-	Calcium Sulfonate
NLGI grade	ASTM D 217/DIN 51 818	-	1-2
Color	Visual	-	Light Brown
Appearance	Visual	-	Smooth
Operating temperature range		°C	-25 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)	460
Penetration at 25°C	ASTM D 217/DIN 51 818	0.1 mm	280-310
Dropping point	IP 396	°C	>300
EMCOR, distilled water	ISO 11007	Rating	0-0
Four ball weld load	ASTM D2596	kgf	>400
Flow pressure at 1400 mbar	DIN 51 805	°C	-25

Above characteristics are mean values given as an information.