



CERAN XM 220

DESCRIPTION

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

APPLICATIONS

CERAN XM 220 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 220 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).

CERAN XM 220 is suitable for the lubrication of continuous castings and rolling mills in steel plants, bearings in wet and dry (felt rolls) sections of paper mills and all industrial applications under severe conditions (wet, loaded, high temperature, dust,...)

CERAN XM 220 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

SPECIFICATIONS

ISO 6743-9: L-XCFIB1/2

DIN 51 502: KP1/2R-30

DCSEA 360 A specification related to sea water resistant grease codified NATO G-460.

ADVANTAGES

The **NEW GENERATION** of calcium sulfonate complex soap developed by TOTAL Lubrifiants allows **CERAN XM 220** to work well in bearings even if rotation speeds are high. **CERAN XM 220** 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 220** performances even in case of high speed applications where normally polyurea or lithium complex greases are requested. **CERAN XM 220** does not contain lead, or other heavy metals considered harmful to human health and the environment.

RECOMMENDATIONS

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

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

TYPICAL CHARACTERISTICS

PROPERTIES	METHODS	UNITS	CERAN XM 220
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	-30 to 180
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/IP71	mm ² /s (cSt)	220
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	-30

Above characteristics are mean values given as an information.

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