CERAN XM 220



Grease



Extreme-pressure water resistant high temperature "NEW GENERATION" calcium sulfonate complex grease.

APPLICATIONS

Multi purpose heavy duty water resistant grease. Shock loaded applications in industry even in severe demanding environment (water, dust, high temperature).

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

SPECIFICATIONS

ADVANTAGES

speed applications.

No harmful substances.

True multi purpose. The NEW GENERATION of calcium sulfonate complex soap developed by TOTAL Shock loads. Lubrifiants allows CERAN XM 220 to work well in bearings even if rotation speeds are high. Water resistant. CERAN XM 220 presents outstanding performances even at high nDm where the NEW Anti corrosion. **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 **NEW GENERATION** allowing use in high

 ISO 6743-9: L-XBFIB 1/2 • DIN 51 502: KP1/2R -30

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.

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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. is obtainable via your commercial adviser www.quick-fds.com.



TYPICAL CHARACTERISTICS	METHODS	UNITS	CERAN XM 220 (typical values)
Soap/thickener		-	Calcium sulfonate
NLGI grade	ASTM D 217/DIN 51 818	-	1-2
Color	Visual	-	Brown
Appearance	Visual	-	Smooth
Operating temperature range		°C	- 30 to 180
	ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	mm²/s (cSt)	220
Mechanical stability			
Penetration at 25°C	ASTM D 217/DIN 51 818	0.1 mm	280-310
Penetration after 100 000 strokes	ISO 2137	0.1 mm	+11
Shell Roller 100 hours at 80°C	ASTM D 1831 mod	0.1 mm	-8
Shell Roller 100 hours at 80°C + 10% water	ASTM D 1831 mod	0.1 mm	-12
Thermal stability			
Dropping point	IP 396	°C	> 300
Oil release 50 hours, 100 °C	ASTM D 6184	%	1.4
Oil release 168 hours, 40°C Oxidation stability at 99°C +-0.5°C	NF T 60-191	%	0.9
Pressure drop after 100 hours	ASTM D 942	Psi	4
Pressure drop after 500 hours		Psi	13.5
Antirust properties			
EMCOR, distilled water	ISO 11007	Rating	0-0
EMCOR, synthetic sea water	ISO 11007	Rating	0-0
Copper corrosion, 24 hours at 100°C	ASTM D 4048	Rating	1b
Antiwear and EP properties		· · · · · ·	0.57
Four ball wear (scar diameter)	ASTM D2266	mm	0.37
Four ball weld load	ASTM D2596	kgf	500
Cold properties			
Penetration at -20°C	ISO 13737	0.1 mm	160
Flow pressure at -20°C	DIN 51 805	mbar	560
Flow pressure at 1400 mbar	DIN 51 805	°C	-30
Torque at -20°C			0000
Starting torque	ASTM D 1478	g.cm	2600
After 1 hour		g.cm	460

Above characteristics are mean values given as an information.

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