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

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

ADVANTAGES

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

- 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.

TOTAL LUBRIFIANTS
Industrie & Spécialités
14-12-2010
CERAN XM 220
1/2

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**

<table>
<thead>
<tr>
<th>Soap/thickener</th>
<th>NLGI grade</th>
<th>Color</th>
<th>Operating temperature range</th>
<th>Kinematic viscosity of the base oil at 40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>ASTMD 445/DIN 51 562-1/ISO 3104/IP71</td>
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</tbody>
</table>

**METHODS**

- ASTM D 217/DIN 51 818
- ASTM D 1831 mod
- ASTM D 942
- ASTMD 445/DIN 51 562-1/ISO 3104/IP71

**UNITS**

- mm²/s (cSt)

**CERAN XM 220**

- Calcium sulfonate
- Brown
- Smooth

**TYPICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>METHOD</th>
<th>UNITS</th>
<th><strong>CERAN XM 220</strong></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(typical values)</td>
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</table>

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<tr>
<th>METHOD</th>
<th>UNITS</th>
<th><strong>CERAN XM 220</strong></th>
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<tbody>
<tr>
<td></td>
<td>mm²/s (cSt)</td>
<td>220</td>
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**Mechanical stability**

<table>
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<tr>
<th>METHOD</th>
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<th><strong>CERAN XM 220</strong></th>
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<tr>
<td></td>
<td></td>
<td>280-310</td>
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</tbody>
</table>

**Typical characteristics**

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