



# ALTIS EM 2

## DESCRIPTION

High temperature high speed polyurea grease.

## SPECIFICATIONS

ISO 6743-9: L-XBEEA 2

DIN 51502: K2P -20

## APPLICATIONS

**ALTIS EM 2** is pre-eminently designed for the lubrication of electrical motor bearings.

Also suitable for lubrication of bearings, slides, racks subjected to high temperatures in dry and mildly humid environments, bearings of electric motors, generators, bearings of extraction fans for hot gas or steam, bearings of dryers, pumps, oven conveyors, and all other applications where rotation speeds and temperatures are high.

## ADVANTAGES

Allows long re-lubrication intervals.

Very good stability in application and in storage.

Can be easily pumped and injected.

Very good adhesion to metals.

Excellent antirust and anticorrosion properties.

Excellent thermal stability linked with excellent reversibility.

**ALTIS EM 2** does not contain lead, or other heavy metals considered harmful to human health and the environment.

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](http://ms-sds.totalenergies.com)

## RECOMMENDATIONS

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

## TYPICAL CHARACTERISTICS

| PROPERTIES                                  | METHODS                               | UNITS                    | ALTIS EM 2 |
|---|---------------------------------------|--------------------------|------------|
| Soap / Thickener                            |                                       | -                        | Polyurea   |
| NLGI Grade                                  | ASTM D 217/DIN 51 818                 | -                        | 2          |
| Color                                       | Visual                                | -                        | Green      |
| Appearance                                  | Visual                                | -                        | Smooth     |
| Operating temperature range                 | -                                     | °C                       | -20 to 160 |
| Penetration at 25°C                         | ASTM D 217 / DIN 51 818               | 0.1 mm                   | 265-295    |
| Oil separation 168 hrs. at 40°C             | DIN 51 817/IP 121/NFT 60-191          | % mass                   | < 1        |
| Bearing behavior 10.000rpm/149°C            | ASTM D 3336                           | Hrs.                     | > 1300     |
| Anti-rust performance SKF- EMCOR            | DIN 51 802/IP220/NFT 60-135/ISO 11007 | Rating                   | 0 - 0      |
| Dropping point                              | IP 396/NFT 60 102 C                   | °C                       | > 260      |
| 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) | 110        |
| FAG-FE9 3000/1.5/170 °C                     | DIN 51821                             | Hrs F10/F50              | > 225      |

Above characteristics are mean values given as an information.

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