



MULTIS COMPLEX SHD 100

DESCRIPTION

Synthetic high-performance Lithium Complex and Extreme-Pressure grease, dedicated to Heavy-Duty industry.

APPLICATIONS

MULTIS COMPLEX SHD 100, *Synthetic Heavy-Duty*, is a special complex lithium grease designed for high speed applications such as electromotors and fans where a long service life is required.

MULTIS COMPLEX SHD 100 is particularly developed for the lubrication of bearings working in extreme cold conditions. It is mechanically stable and still workable down to -50°C and up to 160°C. It protects also bearings from fretting corrosion.

MULTIS COMPLEX SHD 100 is adapted for the lubrication in equipment under wet conditions and helps to reduce significantly friction between metal surfaces and hence reduce vibrations.

MULTIS COMPLEX SHD 100 is also suitable to lubricate thermoplastic materials.

SPECIFICATIONS

ISO 6743-9: L-XEEHB 2

DIN 51502: KP2P- 50

ADVANTAGES

MULTIS COMPLEX SHD 100 meets the lubrication requirements for very different types of equipment.

Its slow traction coefficient makes it possible to anticipate energy gains and an increase in the service life of the bearings.

Miscible with most conventional soap greases (consult TotalEnergies Lubrificants).

Very good resistance to water, variations in temperature and pollution. Permits longer lubrication intervals.

MULTIS COMPLEX SHD 100 contains no lead or any other heavy metal deemed harmful to human health or 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. is obtainable via your commercial adviser www.quick-fds.com.

TotalEnergies Lubricants

SA 552 006 454 RCS Nanterre - France

RECOMMENDATIONS

MULTIS COMPLEX SHD 100 is recommended for temperatures between -50°C and +160°C.

TYPICAL CHARACTERISTICS

| PROPERTIES | METHODS | UNITS | MULTIS COMPLEX SHD 100 |
|-------------------------------------|--|--------------------------|------------------------|
| Thickener | | - | Complex Lithium |
| NLGI Grade | ASTM D 217/DIN 51 818 | - | 2 |
| Color | Visual | - | Yellow |
| Appearance | Visual | - | Smooth |
| Operating temperature range | | °C | -50 to 160 |
| Penetration at 25°C | ASTM D 217/DIN 51 818 | 0.1 mm | 265-295 |
| Penetration at -40°C | NF T 60 171 mod. | 0.1 mm | >160 |
| Low temperature Torque at -40°C | ASTM D1478 | mNm | |
| - Starting torque | | | 383 |
| - Running torque | | | 51 |
| Mechanical stability P100,000 – P60 | ASTM D 217/DIN51 818 | 0.1 mm | 23 |
| Antirust performance | ASTM D 1473 | Rating | Pass |
| 4-ball weld load | ASTM D 2596 | Kgf | > 400 |
| 4-ball wear | ASTM D 2266 | mm | 0,5 |
| Dropping point | IP 396/NFT 60 102 C | °C | >280 |
| Base oil viscosity at 40 °C | ASTM D 445/DIN 51 562-1/ISO 3104/ IP71 | mm ² /s (cSt) | 100 |

Above characteristics are mean values given as an information.