



Unirex™ S 2

Mobil Industrial , Hong Kong

Grease

Product Description

Unirex™ S 2 is a lithium complex thickened high-temperature grease, based on a low volatility, synthetic polyol ester fluid, fortified with performance-enhancing additives. It is uniquely suited for high temperature applications, with an upper operating temperature recommendation of 200° C / 392°F based upon ASTM D3336 performance. Additionally this grease possesses good oxidation stability, and rust preventive characteristics.

Features and Benefits

Unirex S 2 grease is specially developed for high temperature applications where mineral oil based greases may not provide adequate protection. The ester base fluid has a low volatility at the working temperatures involved, this can lead to long grease life when compared to a conventional mineral oil product. Unirex S 2 is suitable for high temperature operations where frequent relubrication is not practical.

This product offers the following performance features:

- Outstanding high-temperature performance with better lubricity and wear protection than conventional grease
- Low base stock volatility helping to provide long lubricant life and potentially extend re-lubrication intervals.
- An upper operating temperature of 200° C /392°F based upon ASTM D3336 High Temperature Life performance

Applications

Application notes: The ester base oil of Unirex S 2 is not compatible with many common elastomer seal materials. For example, it may cause a softening or swelling of NBR seals. It is recommended that the equipment manufacturer or your ExxonMobil representative be consulted regarding seal compatibility in a specific application.

Unirex S 2 is recommended by ExxonMobil for severe applications including:

- Conveyor bearings in kilns and ovens
- Steel mill ladle bearings
- Jet aircraft starter clutch assemblies
- Critical oven bearings in Fiberglas manufacture

Properties and Specifications

| Property | |
|--|--------------|
| Grade | NLGI 1.5 |
| Base Oil Viscosity of Greases @ 40 C, mm ² /s, AMS 1697 | 170 |
| Color, Visual | Orange/Brown |
| Corrosion Preventive Properties, Rating, ASTM D1743 | PASS |
| Dropping Point, °C, ASTM D2265 | 280 |
| Four-Ball Extreme Pressure Test, Weld, kgf, ASTM D2596 | 160 |

| Property | |
|--|------|
| Four-Ball Wear Test, Scar Diameter, 40 kg, 1200 rpm, 1 h, 75 C, mm, ASTM D2266 | 0.60 |
| Lubrication Life @ 204 C, h, ASTM D3336 | 500 |
| Oil Separation, mass%, ASTM D1742 | 3 |
| Penetration, 60X, 0.1 mm, ASTM D217 | 280 |

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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02-2024

ExxonMobil Hong Kong
22nd Floor, Central Plaza,
18 Harbour Road, Wanchai
Hong Kong

+852 3197 8888

<http://www.exxonmobil.com>

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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