Mobil

Unirex™ S 2

Mobil Industrial , Malaysia

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 200º 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 200º 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, mm2/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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