Mobil

Unirex™ S 2

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 Potential 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

Typical Properties

Property	Unirex S 2
NLGI Grade	2
Thickener Type	Li-complex
Color, visual	Orange/Brown
Worked Penetration,, ASTM D 217, mm/10	280
Dropping Point ASTM D 2265, ºC	280
4-Ball Wear, scar diameter, ASTM D 2266, mm	0.60
Viscosity of Base Oil at 40 ºC, ASTM D 445, cSt	170
Oil Separation, ASTM D 1742, mass %	3
Lubrication life at 204 ºC, ASTM D 3336, hours	500
Corrosion Prevention, ASTM D 1743, Rating	Pass
4-Ball Weld Load, ASTM D 2596, Kg	160

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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