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 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, 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

02-2024
1-800-81-6233

SEALubeline@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
ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.