UNIREX™ N Series

Mobil Grease , Netherlands

High Temperature Bearing Grease

Product Description

UNIREX™ N greases are premium-quality, lithium-complex products suitable for high-temperature service in rolling-element bearings. These versatile greases can be used in a wide range of industrial applications and are particularly recommended for electric-motor lubrication.

UNIREX N greases are not intended to be used under extreme pressure conditions where extra anti-welding properties are required.

UNIREX N 2 meets the requirements of Lubricating Grease DIN 51825 - K2N - 20L and ISO L-XBDHA 2.

UNIREX N 3 meets the requirements of Lubricating Grease DIN 51825 - K3N - 20L and ISO L-XBDHA 3.

Features and Benefits

Unirex N greases exhibit excellent high and low temperature performance, resistance to water and corrosion, and long service life in a range of bearing applications.

Features	Advantages and Potential Benefits
Excellent high-temperature performance	Lithium-complex thickener resists softening / running out of bearings at temperatures up to 190°C
Outstanding grease life	Laboratory bearing rig tests show outstanding continuous lubrication performance at bearing temperatures of up to 140°C
Very good low-temperature characteristics	Start-up power requirements are low at temperatures down to at least -20°C. Meets DIN 51825 low temperature torque requirements at -20°C
Excellent mechanical stability	Exhibits excellent resistance to softening due to mechanical working
Excellent water and corrosion resistance	Resists water washout and protects bearings against corrosion
Excellent performance in high-speed applications	Channelling characteristics provide excellent performance in high- speed deep-groove ball bearings. Unirex N3 is recommended where DmN (mean bearing diameter X rpm) exceeds 360,000

Applications

UNIREX N 2 is recommended for the lubrication of electric motors. It is suitable for NEMA (National Electric Manufacturer's Association) Insulation Class A, B, and F motors.

Most of the uses for UNIREX N involve manual methods of application. Although UNIREX N 2 is suitable for use in automatic centralized systems, equipment served by these systems would normally not require the long-life properties of UNIREX N, since one of the functions of automatic systems is to replenish the lubricant at relatively short time intervals. UNIREX N 3 should not be used in such systems.

Specifications and Approvals

This product meets or exceeds the requirements of:	2	3
DIN 51825:2004-06 - K 2 N -20 L	X	
DIN 51825:2004-06 - K 3 N -20 L		X
ISO 6743-9: 2003 L-XBDHA 2	X	
ISO 6743-9: 2003 L-XBDHA 3		X

Properties and Specifications

Property	2	3
Grade	NLGI 2	NLGI 3
Thickener Type	Lithium Complex	Lithium Complex
Color, Visual	Green	Green
Dropping Point, °C, ASTM D2265	210	210
Oil Separation, 30 h @ 100 C, mass%, ASTM D6184	1.5	0.6
Penetration, 100 KX, 0.1 mm, ASTM D217	25	30
Penetration, 60X, 0.1 mm, ASTM D217	280	235
SKF Emcor Rust Test, Distilled Water, ASTM D6138	0 , 1	0 , 1
Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445	12.2	12.2
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	115	115
Viscosity Index, ASTM D2270	95	95
Water Washout, Loss @ 79 C, wt%, ASTM D1264	3.7	3.5

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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EXXONMOBIL LUBRICANTS & SPECIALTIES EUROPE, A DIVISION OF EXXONMOBIL PETROLEUM & CHEMICAL, BVBA (EMPC)
POLDERDIJKWEG
B-2030 Antwerpen
Belgium

Automotive products: 0800 0229118
Industrial products: 0800 0229120
Fax: 0800 0229222

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

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