



UNIREX™ N Series

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 2 in an NLGI No. 2 grade and is preferred in most cases for application by hand packing or by grease gun. UNIREX N 3 is an NLGI No. 3 grade often used for special applications such as sealed-for-life electric motor bearings, vertically mounted bearings, and higher-speed applications. 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 an NLGI No. 2 grade and is preferred in most cases for application by hand-packing or by grease gun. 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.

UNIREX N 3 is an NLGI No. 3 grade and is used for special applications such as sealed-for-life bearings, vertically-mounted bearings, and higher-speed bearings.

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

Unirex N Series meets or exceeds the requirements of:	2	3
DIN 51825: (2004-06)	K2N-20L	K3N-20L

Typical Properties

UNIREX N	2	3
Thickener Type	Lithium-complex	Lithium-complex
NLGI Grade	2	3
Color, Visual	Green	Green
Texture	Smooth, Buttery	Smooth, Buttery
Dropping Point, ASTM D 2265, °C	230	230
Base Oil Viscosity, ASTM D 445, cSt @ 40°C	115	115
Base Oil Viscosity Index, ASTM D 2270	95	95
Penetration, worked 60 stokes, ASTM D 217, mm/10	280	235
Penetration change after 100,000 strokes, ASTM D 217, mm/10	25	30
Oil Separation, ASTM D 6184, mass % @ 100°C / 30 hrs	1.5	0.6
EMCOR Corrosion, ASTM D 6138 (Distilled Water), rating	0,1	0,1
Water Washout @ 79°C, ASTM D 1264, mass %	3.7	3.5

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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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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