Mobil

# UNIREX™ N Series

Mobil Grease , Peru

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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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

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