Mobil

# UNIREX™ N Series

Mobil Grease , Djibouti

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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Mobil Oil Djibouti
P.O. Box 93, Plateau du Marabout, Republic of Djibouti

+ 253 353 217

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