



UNIREX™ N Series

Mobil Grease , United States

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, mm <sup>2</sup> /s, ASTM D445 | 12.2            | 12.2            |
| Viscosity @ 40 C, Base Oil, mm <sup>2</sup> /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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