



## POLYREX® EM

### Description

Super-premium POLYREX EM polyurea grease is specially formulated for electric motor bearings. Its advanced thickener formulation and proprietary manufacturing techniques provide low noise characteristics, improved bearing performance, protection and longer motor life.

Polyrex EM offers the following features and benefits:

- Outstanding long-life, high-temperature & lubrication of ball and roller bearings
- Excellent mechanical shear stability
- Low noise properties
- Excellent corrosion resistance, even in the presence of salt water
- Specially formulated for electric motor bearing lubrication

### Application Recommendations

POLYREX EM is formulated to meet the requirements of the following applications:

- Electric motor bearings
- Fin fan bearings
- High-temperature pump
- Factory-filled, sealed-for-life ball bearings
- Ball or roller bearings operating at high temperatures where low oil separation is required
- Ball or roller bearings operating in noise sensitive environments

Please contact your local sales representative or the Technical Resource Center at 1-800-44EXXON for specific application information

### Health and Safety

Based on available information, this product 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. MSDSs are available upon request through your sales contract office, online at [www.exxon.com](http://www.exxon.com) or by calling the MSDS FAX ON-DEMAND System at (613) 228-1467. The product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.



*POLYREX EM is specifically formulated for extended lubrication life in a wide range of electric motor bearings. Photo courtesy of NSK Corporation.*

### Typical Inspections

The values shown here are representative of current production. Some are controlled by manufacturing specifications, while others are not. All may vary within modest ranges.

Color, Visual	Blue
Mineral Oil Viscosity, ASTM D 445, cSt @ 40°C	115
Mineral Oil Viscosity, ASTM D 445, cSt @ 100°C	12.2
Mineral Oil Viscosity Index, ASTM D 2270	95
60-Stroke Worked Penetration, ASTM D 217, mm/10	284
100,000-Stroke Worked Penetration, ASTM D 217, mm/10	318
High Temperature Grease Life, ASTM D 3336, Hours @ 177°C	750+
Dropping Point, ASTM D 2265, °F (°C)	550 (288)
4-Ball Wear Scar, ASTM D 2266, @ 40kg, 1200 rpm, 75°C, 1 hr, mm	0.41
Rust Protection Performance, ASTM D 1743, Distilled Water Rating	Pass
Low Temperature Torque, ASTM D 1478, g-cm @ -29°C	Starting: 6300 Running: 488
EMCOR Corrosion Performance, 10% Synthetic Sea Water ASTM D 6138 (Prepared As Per ASTM D 665B)	0,0 (No Rust)
Corrosion Prevention Performance, Distilled Water, ASTM D 1743	Pass
Copper Corrosion Resistance, ASTM D 4048	1A
Water Washout, ASTM D 1264, %	1.9
Wheel Bearing Leakage, ASTM D 4290, g	0.7
Oil Separation Tendencies, ASTM D 1742, %	0.3

**Exxon Branded Lubricants - 1-800-44-EXXON**

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