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### Mobil Polyrex™ EM



### Mobil Polyrex™ EN

Premium greases for electric motor bearings running at high speeds

#### FEATURES

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High speed operation



Low bearing noise capability



Controlled oil release

#### ADVANTAGES



Outstanding lubrication of ball and roller bearings



Increased durability under mechanical shear forces



Suitable for lubrication in noise-sensitive applications

Designed for electric motor bearings running at high speeds, Mobil Polyrex™ EM grease is specially formulated to improve bearing performance and protection for long electric motor life. It comes highly recommended by leading bearing and electric motor manufacturers.



### DID YOU KNOW?

Mobil Polyrex™ EM potentially reduces bearing replacement by

43%

### Polyurea (Shear stable)

ΔN

CaX

Incompatible; Avoid mixing

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Moderately compatible; Test before mixing

Compatible

AIX - Aluminum Complex CaX - Calcium Complex CaS - Calcium Sulfonate Li12 – Lithium 12-Hydroxy LiX – Lithium Complex B/C – Bentonite/Clay

PU - Polyurea

Generally ExxonMobil does not recommend changing thickener technology when replacing greases. It is always recommended to thoroughly remove and clean out any old grease prior to converting to another grease.

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BASE OIL VISCOCITY @ 40°C

113

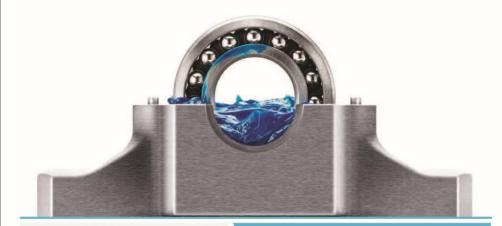
APPEARANCE

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### Results that speak for themselves.

Mobil Polyrex<sup>™</sup> EM grease and Mobil Engineering Services help Chinese electric motor OEM save more than US \$12,000 annually.



### Situation

Hebei Electric Motor Co., Ltd. is a leading electric motor manufacturer in China with growing sales in Asia and Europe. To meet increasing customer demands, it needed to respond quickly to complaints about bearing noise and grease bleeding. The company approached ExxonMobil engineers for an alternative lubricant solution capable of mitigating these issues and improving overall equipment performance.

### Benefit

Hebei Electric Motor Company reports that Mobil Polyrex™ EM grease has helped it significantly reduce grease consumption. It has also resulted in replacement of fewer bearings due to lubrication failures or excessive poise leading to cost savings.

### **Key highlights**

- Significant reduction in grease consumption
- Lower bearing replacement
- Reduction of excessive noise during operation

SAVING OF OVER US \$12,000

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### FEATURES

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### DID YOU KNOW?

Mobil Polyrex<sup>™</sup> EM can potentially reduce your grease consumption by

### Polyurea (Shear stable)

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Moderately compatible;

Test before mixing

AIX - Aluminum Complex CaX - Calcium Complex CaS - Calcium Sulfonate

Li12 - Lithium 12-Hydroxy LiX - Lithium Complex B/C - Bentonite/Clay

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Compatible

113



### Results that speak for themselves.

Mobil Polyrex™ EM grease helps Turkish oil refinery save US \$252,000 per year.



### Situation

A Turkish oil refinery's processing units are equipped with electric motors and heat exchanger fan bearings. Prior to 2003, the motors and fans were lubricated with a conventional EP grease and were experiencing high bearing temperatures that led to high grease consumption, bearing failures and lengthy unscheduled downtime. In an effort to reduce maintenance costs and improve bearing life, the company approached ExxonMobil engineers for an alternative grease solution.

### Benefit

### **Key highlights**

- 43% reduction in motor and fan bearing replacements
- Estimated annual savings of US \$252,000
- Reduction in unscheduled downtime

ANNUAL SAVINGS OF US \$252,000

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