



**Mobil Polyrex 461 EP**  
Mobil Grease , United Kingdom  
High temperature multi-purpose grease

Product Description

Mobil Polyrex™461 EP is a shear-stable polyurea grease with excellent extreme-pressure (EP) and load-carrying characteristics. The proprietary polyurea thi system exhibits excellent resistance to oxidation and oil separation at operating temperatures as high as 170°C. With its outstanding high-temperature oxidation st load-carrying capability, shear stability, water resistance and wide operating temperature range, Mobil Polyrex™461 EP is an excellent multi-purpose grease for . array of industrial applications such as steel mills and wood pellet machines. This grease has excellent pumpability in central grease systems. Recommended ope temperature range is from -20 °C to 170 °C.

Mobil Polyrex™461 EP meets the claim by DIN KPF1 P-20.

Features and Benefits

- EXTREME-PRESSURE PROTECTION AND THERMAL STABILITY
- Mobil Polyrex™461 EP contains a proprietary extreme-pressure package with solid additives that provides load-carrying capability without degrading the thermal s of the grease at high temperatures. This grease can provide a high level of wear and extreme-pressure protection up to 170°C without rapid oxidation of the anti-w EP additives. Very good anti-oxidation protection imparted by the advanced polyurea thickener.
- EXCELLENT PUMPABILITY IN CENTRALIZED GREASE SYSTEMS
- Due to consistancy grade NLGI 1 this grease is suitable for long distribution systems with very good mobility down to 0°C. Grease can allow to stretch performa -20°C depending on central system design.
- GOOD WATER PROTECTION
- Mobil Polyrex™461 EP provides an effective water resistance to keep grease in place. Corrosion prevention protects bearings in presence of water

Applications

- Suitable for medium to slow speed moving plain or roller bearings exposed to high temperatures, severe load and shock loading in the following industrial applicati
- Steel mill continuous casters & roll mills
- Wood pellet mills
- Cement, Glass, Mining, Chemical plants equipment

Specifications and Approvals

This product meets or exceeds the requirements of:
DIN 51825:2004-06 - KPF 1 P -20

Properties and Specifications

Property	
Grade	NLGI 1
Copper Strip Corrosion, Rating, ASTM D4048	1B
Rust, Rating, ASTM D1743	Pass

Property	
SKF Emcor Rust Test, Distilled Water, ASTM D6138	0-1
Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2596	400
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5
Flow Pressure at -20C, mbar, DIN 51805	900
Water Washout, Loss @ 79 C, wt%, ASTM D1264	1
Base Oil Viscosity of Greases @ 40 C, mm2/s, AMS 1697	460
Color, Visual	Green
Texture, VISUAL	Smooth and Tacky
Dropping Point, °C, ASTM D2265	255
Penetration, 60X, 0.1 mm, ASTM D217	325

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.as>  
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