



Mobil Polyrex™ 461 HD

Mobil Grease, India

High temperature multi-purpose grease

Product Description

Mobil Polyrex™461 HD is a polyurea grease with excellent water washout resistance, superior high temperature protection and load-carrying characteristics. The polyurea thickener system exhibits excellent resistance to oxidation and oil separation at high operating temperatures. With its outstanding water resistance, high-temperature oxidation stability, load-carrying capability, and wide operating temperature range, Mobil Polyrex™461 HD is an excellent multi-purpose grease for a wide array of industrial applications such as steel mills and wood pellet machines. This grease has excellent pump ability in central grease systems. Recommended operating temperature range is from -20 °C to 160 °C.

Features and Benefits

Features and Benefits

Features:

- Very good resistance to oxidation imparted by the polyurea thickener.
- Resistance to water washout: Provides an effective water resistance to keep grease in place.
- Dependable protection under heavy loads.
- Good protection against corrosion: Corrosion prevention protects bearings in presence of water.
- Superior high temperature performance: Can provide a high level of wear protection up to 160°.
- Compatibility with centralized greasing systems: Due to consistency grade NLGI 1 this grease is suitable for long distribution systems with very good mobility.

Benefits:

- Dependable bearing and equipment protection.
- Helps enhance plant reliability and minimize downtime.
- Cost-effective lubrication solution: Reduced waste water disposal costs due to excellent water resistance.

Features	Advantages and Potential Benefits
Excellent water washout resistance	Effective protection as grease stays in place. Increased bearing protection leads to reduced spare costs. Reduced waste water disposal cost.
Excellent Oxidation Stability	Protection against degradation due to oxidation. Increased grease life and equipment protection.
Good corrosion protection	Protection against corrosion in presence of water. Increased bearing life and reduced maintenance cost

Applications

Suitable for medium to slow speed moving plain or roller bearings exposed to high temperatures, high water wet conditions in the following industrial applications:

Steel mill continuous casters & rolling mills.

Wood pellet mills.

Cement, Glass, Mining, Chemical plants equipment.

Properties and Specifications

Property	
Grade	NLGI 1
Thickener Type	Grease - Polyurea
Dropping Point, °C, ASTM D2265	265
Viscosity @ 40 C, Base Oil, mm ² /s, ASTM D445	460
Color, Visual	Beige
Water Washout, Loss @ 79 C, wt%, ASTM D1264	4.2
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1B
Oil Separation, 0.25 psi, 24 h @ 25 C, mass%, ASTM D1742	1.2
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.55
Penetration, Worked, 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.aspx>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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