# Mobil Centaur XHP 460 Series

Mobil Grease , Turkey

Multipurpose Calcium Sulphonate Complex Grease

**Product Description**

Mobil Centaur XHP 460 Series greases are a premium family of greases formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener carries both inherent rust protection and extreme pressure(EP) properties. Compared to conventional soap-base thickeners (i.e. lithium, aluminum, calcium soaps), the calcium sulfonate thickener used in Mobil Centaur XHP 460 Series excels in water saturated environments, providing rust protection between long re-lubrication intervals. The inherent EP properties exhibit great stability in the presence of water, allowing a balance between wear protection and resistance to corrosion.

Mobil Centaur XHP 460 Series greases are particularly well suited to meet the demanding lubrication requirements of steel mill and paper machine equipment. Mobil Centaur XHP 460 Series greases provide a balanced combination of water washout and water spray-off resistance, as well as excellent corrosion protection, in these severely wet environments. The calcium sulfonate thickeners used are also able to maintain their consistency and EP protection characteristics even with high levels of water contamination.

It is noted that calcium sulfonate technology sliding performance can, in some cases, increase tendency towards skid smear wear in rolling element bearings. This wear has been correlated with several conditions including light loading, grease overpack and frequent speed changes, where you may experience skid smear wear in rolling element bearings. Consideration should be given when using calcium sulfonate technology in applications with such risk factors or experience of this type of wear. Contact your Mobil representative for further evaluation.

**Features and Benefits**

Mobil Centaur XHP 460 Series greases are members of the Mobil brand of lubricating products recognized for their high quality and reliability, as well as performance capabilities. This family of products is manufactured to the strictest quality standards. A key feature for this product family is its reputation for reliability and consistency, as well as its ability to handle tough applications. Mobil Centaur XHP 460 Series greases are formulated with high-performance calcium sulfonate thickener technology and are specifically designed for steel and papermill applications. Mobil Centaur XHP 460 Series greases offer the following benefits:

- Excellent extreme-pressure protection and load-carrying ability for equipment protection under heavy and shock loading
- Excellent high temperature oil bleed control
- Reliable bearing lubrication for operations up to 232 C (450 F) with proper re-greasing intervals
- An advanced polymer additive package which resists water washout
- Ability to absorb free water, without losing thickener consistency
- Extended re-grease intervals, reducing grease consumption

**Applications**

Mobil Centaur XHP 460 Series greases are recommended for heavily loaded and water saturated applications in the steel and paper mill environments. Specific examples of such applications include:

- Ladle turret bearings
- Continuous casters
- Hot rolling work roll bearings
- Roll necks
- Couch, press and breast rolls
- Wood pellet mill roll bearings

**Specifications and Approvals**

| This product meets or exceeds the requirements of: | 461 |
|---|---|
| DIN 51825:2004-06 - KPF 1 K -20 | X |

**Properties and Specifications**

| Property | 461 | 462 |
|---|---|---|
| Grade | NLGI 1 | NLGI 2 |
| Thickener Type | Calcium Sulfonate | Calcium Sulfonate |
| Color, Visual | BROWN | BROWN |
| Dropping Point, °C, ASTM D2265 | 275 | 275 |
| Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596 | 400 | 400 |
| Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266 | 0.6 | 0.6 |
| Penetration, 60X, 0.1 mm, ASTM D217 | 315 | 280 |
| Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445 | 30.8 | 30.8 |
| Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445 | 460 | 460 |
| Viscosity Index, ASTM D2270 | 96 | 96 |
| Water Sprayoff, Loss, %, ASTM D4049 | 25 | 20 |
| Water Washout, Loss @ 79 C, wt%, ASTM D1264 | 1.0 | 0.5 |

**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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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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