



**Primetals Mill Duty Grease**  
Mobil Industrial , Canada  
Premium steel mill grease



Product Description

Primetals Mill Duty Grease is an extended service lithium complex grease specifically designed for use in long rolling equipment manufactured by Primetals Techno. It is designed to outperform conventional steel mill greases by a combination of high performance additives, robust ISO VG 220 base oil and proprietary manufacturing technology. In service it provides strong adhesion, structural stability and resistance to water contamination for excellent protection against rust and corrosion. In addition, Primetals Mill Duty Grease offers excellent high temperature wear protection, with its high technology performance additives allowing for operating temperatures of 140° C (284°F).

Primetals Mill Duty Grease is designed to perform in challenging steel mill operating conditions that include high temperature, water contamination, shock loads and extended re-lubrication intervals.

Features and Benefits

Primetals Mill Duty Grease utilizes the same technology found in Mobilgrease XHP 221, a product whose demonstrated performance has made it a popular choice among Primetals Technologies equipment owners worldwide. It is formulated to provide excellent oxidation stability as well as anti-wear and EP protection.

| Features   | Advantages and Potential Benefits  |
|--|--|
| Strong resistance to water washout and spray-off                           | Lubrication and protection in the most severe water exposure conditions                                  |
| Highly adhesive and cohesive thickener structure                           | Helps reduce leakage and extend re-lubrication intervals for reduced maintenance                         |
| Excellent rust and corrosion resistance                                    | Prevents damage to metal surfaces in hot, humid and wet environments                                     |
| Resists thermal, oxidative and structural degradation at high temperatures | Enhances grease life and bearing protection in hot applications to reduce maintenance and costs          |
| Excellent anti-wear and EP performance                                     | Protects equipment exposed to sliding wear to extend operating life and help reduce unscheduled downtime |
| Broad multi-purpose application  | Provides potential for inventory rationalization and reduced inventory costs                             |

Applications

Primetals Mill Duty Grease can be used in a wide variety of long rolling mill applications. Its NLGI Grade 1 penetration makes it ideal for use in automatic grease systems where it can reduce grease line plugging and related maintenance. Primetals Mill Duty Grease is supported with the joint expertise and field technical services offered by Mobil and Primetals Technologies.

Properties and Specifications

| Property   |           |
|--|-----------|
| Grade  | NLGI 1    |
| Color, Visual  | Dark blue |
| Penetration, 60X, 0.1 mm, ASTM D217                                | 325       |
| Dropping Point, °C, ASTM D2265                                     | 280       |
| Base Oil Viscosity of Greases @ 40 C, mm2/s, AMS 1697              | 220       |
| Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266                 | 0.5       |
| Corrosion Preventive Properties, Rating, ASTM D1743                | PASS      |
| SKF Emcor Rust Test, Distilled Water, ASTM D6138                   | 0,0       |
| Roll Stability, Penetration Consistency Change, 0.1 mm, ASTM D1831 | -15       |
| Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596       | 315       |
| Oxidation Stability, Pressure Drop, 100 h, kPa, ASTM D942          | 35        |
| Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048            | 1B        |
| Timken OK Load, lb, ASTM D2509                                     | 40        |

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

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