# **Mobil**<sup>®</sup>

## Mobilgrease XHP™ 460 Series

Mobil Grease , Finland

# Product Description

Mobilgrease XHP<sup>™</sup> 460 greases are extended service lithium complex greases intended for a wide variety of heavy duty applications and operating conditions. greases were designed to outperform conventional products by applying high performance proprietary lithium complex manufacturing technology. They are form to provide excellent high temperature performance with excellent adhesion, structural stability and resistance to water contamination. These greases have a high l chemical stability and offer excellent protection against rust and corrosion. These greases feature high dropping points and maximum recommended op∉ temperature of 140° C (284°F). Mobilgrease XHP 460 greases are formulated with an ISO VG 460 base oil viscosity and are available in NLGI grades 1 and 2. Mobil XHP 462 Moly is fortified with 3% molybdenum disulfide to provide enhanced EP and AW protection in heavily loaded and high sliding applications.

Mobilgrease XHP 460 greases are designed for a wide range of applications including the industrial, automotive, construction and marine sectors. Their perform features make them ideal choices for operating conditions including high temperature, water contamination, shock loading and extended re-lubrication oper Mobilgrease XHP 462 Moly is an extreme pressure grease containing 3% molybdenum disulfide that provides protection from wear under pivoting and other I loaded sliding conditions that lead to lose of oil film.

### Features and Benefits

A key factor in the excellent adhesion and cohesion properties and mechanical stability of the thickener of Mobilgrease XHP 460 greases is the proprietary manufacturing facilities. These products use specially selected additives to provide ex oxidation stability, rust and corrosion control, resistance to water contamination as well as anti-wear and EP protection. Mobilgrease XHP 460 Series products of following features and potential benefits:

Mobilgrease XHP 460 greases are leading members of the Mobilgrease brand of products. Mobilgrease XHP 460 greases are designed by our formulation techno and backed by our world-wide technical support staff.

Features	Advantages and Potential Benefits
Superb resistance to water washout and spray-off	Helps to assure proper lubrication and protection even in the most severe water exposure condition:
Highly adhesive and cohesive structure	Excellent grease tenacity helps reduce leakage and extend re-lubrication intervals to help remaintenance requirements.
Excellent rust and corrosion resistance	Protection of lubricated parts even in hostile aqueous environments.
Very good resistance to thermal, oxidative and structural degradation at high temperature	Helps extend grease life and enhance bearing protection in high temperature applications and or reduced maintenance and replacement cost benefits.
Very good anti-wear and EP performance	Reliable protection of lubricated equipment, even under conditions of high sliding with potenti extended equipment life and reduced unanticipated downtime
Broad multi-purpose application	Provides potential for inventory rationalization and reduced inventory costs

## Applications

Mobilgrease XHP 460 greases are used in a wide range of equipment including industrial, automotive, construction and marine applications. The blue cc Mobilgrease XHP 461 and 462 enables easy verification of application. With its high, ISO VG 460 base oil viscosity, these greases are recommended for hig applications at slow-to-moderate speeds, including most bearing applications in the paper, construction, and mining industries, as well as off-highway vehicles.

#### Specific applications:

• Mobilgrease XHP 461 is recommended by ExxonMobil for use in industrial and marine applications, chassis components and farm equipment. It provides ex low temperature performance. It is satisfactory for low speed flexible gear-type couplings.

• Mobilgrease XHP 462 Series is recommended for use in felt roll bearings, wet end bearings, and press section bearings. It is also a good multi-purpose greater

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general mill applications and industrial and marine applications, chassis components and farm equipment.

• Mobilgrease XHP 462 Moly is fortified with 3% molybdenum disulfide and is particularly recommended by ExxonMobil for applications such as bucket pins ar wheels, where molybdenum disulphide provides an extra level of protection where sliding friction and oscillating motion can lead to rupturing of the oil film, resul metal to metal contact.

#### Specifications and Approvals

This product meets or exceeds the requirements of:	Mobilgrease XHP 461	Mobilgrease XHP 462
DIN 51825:2004-06 - KP 1 N -20 L	х	
DIN 51825:2004-06 - KP 2 N -20 L		X

#### Properties and Specifications

Property	Mobilgrease XHP 461	Mobilgrease XHP 462	Mobilgrease XHP 462 MOL
Grade	NLGI 1	NLGI 2	NLGI 2
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex
Color, Visual	Dark blue	Dark blue	Gray-Black
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1A	1A	1A
Corrosion Preventive Properties, Rating, ASTM D1743	Pass	Pass	Pass
Dropping Point, °C, ASTM D2265	270	300	300
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	315	315	315
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5	0.5	0.5
Molybdenum Disulfide Content, wt %, CALCULATED			3
Oxidation Stability, Pressure Drop, 100 h, kPa, ASTM D942	13.8	13.8	
Penetration, 60X, 0.1 mm, ASTM D217	325	280	280
Roll Stability, Penetration Consistency Change, 0.1 mm, ASTM D1831	-5	-5	-5
SKF Emcor Rust Test, Distilled Water, ASTM D6138	0,0	0,0	0,0
Timken OK Load, lb, ASTM D2509	50	50	50
Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445	30.8	30.8	30.8
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	460	460	460
Viscosity Index, ASTM D2270	96	96	96

### 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 All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

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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 pro performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without nc All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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