Mobil

Mobilgrease XHP™ 460 Series

Product Description

Mobilgrease XHP™ 460 greases are extended service lithium complex greases intended for a wide variety of heavy duty applications and operating conditions. These greases were designed to outperform conventional products by applying high performance proprietary lithium complex manufacturing technology. They are formulated to provide excellent high temperature performance with excellent adhesion, structural stability and resistance to water contamination. These greases have a high level of chemical stability and offer excellent protection against rust and corrosion. These greases feature high dropping points and maximum recommended operating temperature of 140º 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. Mobilgrease 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 performance features make them ideal choices for operating conditions including high temperature, water contamination, shock loading and extended re-lubrication operations. Mobilgrease XHP 462 Moly is an extreme pressure grease containing 3% molybdenum disulfide that provides protection from wear under pivoting and other heavily loaded sliding conditions that lead to lose of oil film.

Features and Benefits

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

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 technology developed at our research facilities and adopted by our modern manufacturing facilities. These products use specially selected additives to provide excellent oxidation stability, rust and corrosion control, resistance to water contamination as well as anti-wear and EP protection. Mobilgrease XHP 460 Series products offer the following features and potential benefits:

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 conditions
Highly adhesive and cohesive structure	Excellent grease tenacity helps reduce leakage and extend re-lubrication intervals to help reduce maintenance 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 offers 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 potential for 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 color of Mobilgrease XHP 461 and 462 enables easy verification of application. With its high, ISO VG 460 base oil viscosity, these greases are recommended for high load 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 excellent 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 grease for 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 and fifth wheels, where molybdenum disulphide provides an extra level of protection where sliding friction and oscillating motion can lead to rupturing of the oil film, resulting in metal to metal contact.

Specifications and Approvals

Mobilgrease XHP 460 Series meets or exceeds the requirements of	461	462	462 Moly
DIN 51825: (2004-06)	KP1N-20L	KP2N-20L	--

Typical Properties

Mobilgrease XHP	461	462	462 Moly
NLGI Grade	1	2	2
Thickener Type	Li-Complex	Li-Complex	Li-Complex
Color, Visual	Dark Blue	Dark Blue	Grey
Molybdenum Disulfide, wt%,	--	--	3%
Penetration, Worked, 25º C, ASTM D 217	325	280	280
Dropping Point, ºC, ASTM D 2265	280	280	280
Viscosity of Oil, ASTM D 445			
cSt @ 40º C	460	460	460
4-Ball Wear Test, ASTM D 2266, scar, mm	0.50	0.50	0.50
4-Ball Weld Load, ASTM D 2509, Kg	315	315	315
Timken OK Load, ASTM D 2509, lb	50	50	50
Bomb Oxidation, ASTM D 942, Pressure drop at 100 hrs, kPa (psig)	13.8 (2)	13.8 (2)	--
Corrosion Prevention, ASTM D 1743	Pass	Pass	Pass
Rust Protection (EMCOR), IP 220-mod/ASTM D 6138., Distilled Water	0,0	0,0	0,0
Copper Strip Corrosion, ASTM D 4048	1a	1a	1a
Penetration Consistency Change, Roll Stability, ASTM D 1831, mm/10	-5	-5	-5

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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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