Mobilgrease XHP™ Mine Series

Mobil Grease , Finland

Premium Lithium Complex Grease with Molybdenum Disulfide

Product Description

The Mobilgrease XHP™ Mine products are specifically designed for the lubrication of extra heavy-duty off-highway and mining equipment. With a complete range of NLGI Grades, this series of lithium complex greases, which contain 5% molybdenum disulfide, can be utilized over a wide range of operating conditions and temperatures to improve productivity. The Mobilgrease XHP Mine series has excellent extreme pressure and anti-wear properties in addition to exceptional staying power, very good water wash-out, water spray-off, and extended service capabilities under harsh operating conditions. These extra heavy-duty service greases exhibit excellent structural stability. They will not corrode steel or copper bearing alloys and are compatible with conventional sealing materials.

Mobilgrease XHP 320 Mine, 321 Mine, and 322 Mine were developed especially for their superior performance in bucket pins, pivot pins, and heavily loaded chassis components. Mobilgrease XHP 100 Mine and 320 Mine are especially suited for heavy equipment central lubrication systems requiring an NLGI 0 Grade grease. Mobilgrease XHP 100 Mine and 320 Mine are recommended by ExxonMobil for use in central lubrication systems found on off-highway and mining equipment. Mobilgrease XHP 100 Mine exhibits good dispensability down to -50°C (-58°F). Mobilgrease XHP 321 Mine is a NLGI 1 Grade with very good low temperature pumpability developed for use in colder temperatures. Mobilgrease XHP 322 Mine is a NLGI 2 Grade for use as a general purpose chassis lube.

Features and Benefits

Mobilgrease XHP 100 Mine, 320 Mine, 321 Mine, and 322 Mine are leading members of the Mobilgrease brand of products, which has gained a reputation for innovation and performance excellence. The Mobilgrease XHP Mine Series is designed by ExxonMobil formulation technologists and backed by our worldwide technical support staff.

Mobilgrease XHP 100 Mine, 320 Mine, 321 Mine, and 322 Mine were specifically designed to meet the needs of off-highway and mining equipment that required exceptional EP / anti-wear performance and which would remain in place even in tough conditions of water spray, high sliding, and high temperatures. These greases offer the following features, advantages, and potential benefits:

Features	Advantages and Potential Benefits
Excellent EP and anti-wear properties	Superb equipment protection and potential equipment life extension even in severe operating conditions
High level of molybdenum disulfide	Optimum equipment protection in high sliding mechanisms and with extended re-lubrication intervals
Exceptional resistance to water washout and spray-off	Ensures proper lubrication and protection even in hostile work environments
Very good low temperature pumpability and centralized system capability (Mobilgrease XHP 100 Mine and 320 Mine)	Provides excellent low temperature pumpability and start-up performance, a key feature for remote applications

Applications

Mobilgrease XHP 100 Mine, 320 Mine, 321 Mine, and 322 Mine are recommended for severe off-highway and mining applications in terms of operational severity and water spray. Specific applications include:

- Bucket pins, pivot pins, and heavily loaded chassis components
- Heavy equipment central lubrication systems
- General purpose chassis lubrication

Specifications and Approvals

This product has the following approvals:	MOBILGREASE XHP 322 MINE
VOLVO 97765	X

Properties and Specifications

Property	MOBILGREASE XHP 100 MINE	MOBILGREASE XHP 320 MINE	MOBILGREASE XHP 321 MINE	MOBILGREASE XHP 322 MINE
Grade	NLGI 0	NLGI 0	NLGI 1	NLGI 2
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color, Visual	Gray-Black	Gray-Black	Gray-Black	Gray-Black
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1A	1A	1A	1A
Corrosion Preventive Properties, Rating, ASTM D1743	Pass	Pass	Pass	Pass
Dropping Point, °C, ASTM D2265	200	270	270	270
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	315	400	400	400
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.4	0.4	0.4	0.4
Molybdenum Disulfide Content, wt %, CALCULATED	5	5	5	5
Penetration, 60X, 0.1 mm, ASTM D217	370	370	325	280
Roll Stability, Penetration Consistency Change, 0.1 mm, ASTM D1831	+14	0	±10	±10
US Steel Mobility @ - 20 F, g/min, AMS 1390	32			
US Steel Mobility @ -12 C, g/min, AMS 1390				11
US Steel Mobility @ 20 F, g/min, AMS 1390			15	
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	100	320	320	320
Water Sprayoff, Loss, %, ASTM D4049			28	16
Water Washout, Loss @ 79 C, wt%, ASTM D1264			10	2

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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