



Mobilgrease XHP™ Mine Series  
Mobil Grease, United States

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:

<b>Features</b>	<b>Advantages and Potential Benefits</b>
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

## Typical Properties

	<b>Mobilgrease XHP 100 Mine</b>	<b>Mobilgrease XHP 320 Mine</b>	<b>Mobilgrease XHP 321 Mine</b>	<b>Mobilgrease XHP 322 Mine</b>
NLGI Grade	0	0	1	2
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color, Visual	Gray-Black	Gray-Black	Gray-Black	Gray-Black
Molybdenum Disulfide, Wt. %	5	5	5	5
Penetration, Worked, 25°C, ASTM D 217, mm/10	370	370	325	280
Dropping Point, °C, ASTM D 2265	200	270	270	270
Viscosity of Oil, ASTM D 445				
cSt @ 40°C	100	320	320	320

Penetration Consistency Change, Roll Stability, ASTM D 1831, mm/10	+14	0	±10	±10
Water Washout, ASTM D 1264, 79°C, % Loss	-	-	10	2
Water Sprayoff, ASTM D 4049, % Loss	-	-	28	16
U.S. Mobility, AM-S 1390, gms/min (°C/°F)	32 (-29/-20)	-	15 (-7/20)	11 (-12/10)
4-Ball Wear Test, ASTM D 2266, Scar, mm	0.4	0.4	0.4	0.4
Corrosion Prevention, ASTM D 1743, Rating	Pass	Pass	Pass	Pass
Copper Strip Corrosion, ASTM D 4048	1A	1A	1A	1A
4-Ball Weld Load, ASTM D 2596, Kg	315	400	400	400

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended applications and the recommendations provided in the Material Safety Data Sheet. MSDS's are available upon request through your sales contact 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](http://www.exxonmobil.com)

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