

# **Mobil Grease**

### Mobilgrease XHP<sup>™</sup> Mine Series Premium moly greases for off-highway and mining



### Exceptional protection under harsh operating conditions.

Mobilgrease XHP<sup>™</sup> Mine Series is specifically designed for the lubrication of extraheavy-duty off-highway and mining equipment. These lithium complex greases are fortified with 5 percent molybdenum disulfide and can be utilized across a wide range of operating conditions and temperatures. In addition to its exceptional staying power and extended service capabilities under harsh conditions, Mobilgrease XHP Mine Series exhibits excellent extreme-pressure and antiwear properties, outstanding structural stability, and will not corrode steel or copper-bearing alloys.

Superb resistance to water washout and water spray-off. The ability of Mobilgrease XHP Mine Series to adhere to surfaces prevents rainwater and dredging operations from washing it away, helping ensure proper lubrication and

equipment protection even in some of the most severe water-exposure conditions. These enhanced adhesion properties provide resistance to the effects of water and mud splashing on critical lubrication points, helping create a seal to protect equipment from water and environmental ingress.

### Wet structural stability.

The effects of rain and mud are part of the job for construction and mining equipment. Good wet performance capabilities require not only good surface adhesion but also the ability of the grease to retain its consistency and seal the surface when rain and mud infiltrate the lube point. Mobilgrease XHP Mine Series exhibits excellent wet structural stability, enabling the grease to maintain consistency when mixed with water.

### Excellent pumpability at low temperatures.

Mobilgrease XHP Mine Series provides outstanding low-temperature pumpability and mobility, making it particularly suited for central distribution systems. This helps ensure an adequate supply of grease at low temperatures, helping to protect your equipment and drive productivity. Mobilgrease XHP 100 Mine is specifically formulated to provide excellent pumpability to -29°C (-20°F).

### **High-Performance Benefits**

Excellent EP (extreme pressure) and antiwear properties Reliable protection of lubricated equipment even under conditions of high sliding and heavy loading. It can help extend equipment life and reduce maintenance costs and unexpected downtime.

#### Resistance to thermal, oxidative, and structural degradation

Helps provide extended grease life over a broad range of temperatures and applica tions, providing long lasting protection. Helps reduce maintenance costs and extend equipment and component life.

### Balanced molybdenum disulfide content

A balanced amount of solid MoS<sub>2</sub> with other EP/AW chemistry helps provide optimum equipment protection in high sliding mechanisms and extend relubrication intervals.

#### Outstanding low-temperature pumpability and mobility in central systems

Mobilgrease XHP 100 Mine is specifically formulated to provide very good low-temperature mobility and pumpability, critical for year-round applications.

### Mobilgrease XHP<sup>™</sup> Mine Series — Proof of Performance

### **Application Expertise**

Heavy Duty Grease	NLGI Grade	Visc, cSt @ 40°C	General Application*
Mobilgrease XHP 100 Mine	0	100	Superior low-temperature grease particularly suited for central systems.
Mobilgrease XHP 320 Mine	0	320	Excellent low-temperature grease particularly suited for central systems.
Mobilgrease XHP 321 Mine	1	320	Excellent all-purpose grease for chassis components and bucket pins where extra grease body is needed.
Mobilgrease XHP 322 Mine	2	320	Excellent all-purpose grease for heavily loaded chassis components, pivot pins, and bucket pins that are typically manually lubricated.
Mobilgrease XHP 681 Mine	1	680	Super-duty grease for heavily loaded off-highway equipment. Primarily recommended for the lubrication of slow-moving plain and roller-element bearings.

\*This is intended as a general guide only.

Contact the Mobil Technical Help Desk for specific applications.

### **Typical Properties<sup>†</sup>**

	Mobilgrease XHP 100 Mine	Mobilgrease XHP 320 Mine	Mobilgrease XHP 321 Mine	Mobilgrease XHP 322 Mine	Mobilgrease XHP 681 Mine
NLGI Grade	0	0	1	2	1
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color, Visual	Gray-Black	Gray-Black	Gray-Black	Gray-Black	Gray-Black
Molybdenum Disulfide, Weight %	5	5	5	5	5
Penetration, Worked, 25°C, ASTM D 217, mm/10	370	370	325	280	325
Dropping Point,°F/°C, ASTM D 2265	446 / 230	450 / 232	475 / 246	536 / 280	536 / 280
Viscosity of Oil, ASTM D 445, cSt @ 40°C	100	320	320	320	680
Penetration Consistency Change, Roll Stability, ASTM D 1831, mm/10	-5 to +5				
Water Washout, ASTM D 1264, 79°C, % Weight Loss	-	-	10	2	2.5
Water Spray-off, ASTM D 4049, % Weight Loss	-	-	28	16	38
U.S. Mobility, AM-S 1390, g/minute (°C/°F)	10 (-29/-20)	-	15 (-7/20)	11 (-12/10)	11 (-7/20)
Timken OK Load, ASTM D 2509, lbs	40	50	50	50	50
4-Ball Wear Test, ASTM D 2266, Scar, mm	0.4	0.4	0.4	0.4	0.5
Corrosion Prevention, ASTM D 1743, Rating	Pass	Pass	Pass	Pass	Pass
Copper Strip Corrosion Rating, ASTM D 4048	1A	1A	1A	1A	1A
4-Ball Weld Load, ASTM D 2596, Kg	400	400	400	400	620

<sup>†</sup>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 representative or visit www.exxonmobil.com. ExxonMobil comprises numerous affiliates and subsidiaries, many with names that include Esso. Mobil, or ExxonMobil and the separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

Health and Safety Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. 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 the applications referred to above. If disposing of used product, take care to protect the environment.

## For more information on Mobilgrease XHP<sup>™</sup> Mine Series and other Mobil-branded Industrial Lubricants and services, please contact your local company representative or visit mobilindustrial.com.

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