Mobilgrease HT Series

Mobil Grease , Thailand

Grease

Product Description

Mobilgrease HTR, HTM, HTS and HTF are high performance Extreme Pressure greases with exceptional resistance to the water contamination conditions typical of steel mill, surface mining, and off-highway conditions. Additionally, Mobilgrease HTR, HTM, HTS, and HTF are formulated with superior corrosion resistance. Mobilgrease HTM and HTR provide good water and corrosion resistance along with formulations more capable of providing good dispensing characteristics in central systems. The combination of the lithium complex soap with an advanced additive system provide high temperature performance properties. Mobilgrease HTF provides fire retardancy for castor and hot strip mill operations.

Mobilgrease HTR, HTM, HTS and HTF greases are primarily recommended for the lubrication of bearings, gears, and cams where the elastohydrodynamic lubrication (EHL) requirements dictate significant viscometric contribution. The greases shed mill water, continue to lubricate and aid in forming a strong seal to resist water intrusion. When free water enters a bearing, the greases maintain consistency. Their EP properties and high oil viscosity help reduce wear, making them especially applicable for heavy shock loads. With less wear, maintenance costs for replacing failed bearings will be lower. They can also be used in central grease dispensing systems consistent with apparent viscosity calculations.

Features and Benefits

Mobilgrease HTR, HTM, HTS and HTF greases are leading members of the Mobilgrease brand of products, which has gained a worldwide reputation for innovation and performance excellence. Mobilgrease HTR, HTM, HTS and HTF grease products are designed by ExxonMobil formulation technologists and backed by our worldwide technical support staff.

Mobilgrease HT products were designed specifically to meet the requirements of customers for heavy-duty products with excellent: resistance to water, high temperature and with cohesive and adhesive properties. These greases offer the following features and potential benefits:

Features	Advantages and Potential Benefits
High EHL viscometrics and selected additives for excellent resistance to wear for heavily loaded components	Less unexpected downtime and reduced equipment replacement costs
Excellent ability to seal bearings against water intrusion, and to maintain consistency in the presence of water	Fewer bearing failures caused by water contamination with reduced maintenance and replacement costs
Exceptional corrosion resistance	Very good bearing protection for reduced maintenance and operating costs
Excellent grease cohesion, adhesion and tackiness at high temperatures and in presence of water spray	Better stay-put properties in tough environments and extended re-lubrication potential
Good pumpability at low to moderate temperatures	Can be used in centralised grease distribution systems

Applications

Mobilgrease HTR is primarily intended to address low temperature pumpability challenges. Mobilgrease HTM provides good pumpability with additional protection against water intrusion. Where an NLGI Grade 2 grease can be used, Mobilgrease HTS provides maximum bearing lubrication performance. Mobilgrease HTF provides fire retardancy for castor and hot strip mill operations.

Mobilgrease HTR, HTM, HTS and HTF greases are designed primarily for the lubrication of bearings, gears, and cams, which require high viscosity base oil. Such heavy-duty applications include:

- Steel mill bearings,

- Off-highway rolling stock
- Surface mining drag lines, excavators, drills and haul trucks

Properties and Specifications

Property	MOBILGREASE HTS	MOBILGREASE HTR	MOBILGREASE HTM
Grade	NLGI 2	NLGI 0.5	NLGI 1.5
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex
Base Oil Viscosity of Greases @ 100 C, mm2/s, AMS 1700	37	24	24
Base Oil Viscosity of Greases @ 40 C, mm2/s, AMS 1697	680	320	320
Color, Visual	Black	Black	Black
Dropping Point, °C, ASTM D2265	295	280	280
Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2596	315	315	315
Four-Ball Wear Test, Scar Diameter, 40 kg, 1200 rpm, 1 h, 75 C, mm, ASTM D2266	0.5	0.5	0.5
Penetration, 60X, 0.1 mm, ASTM D217	280	340	295
Roll Stability, 0.1 mm, ASTM D1831		-1	-1
Roll Stability, for ILGU Blending, 0.1 mm, ASTM D1831	-1		
Water Washout, Loss @ 79 C, wt%, ASTM D1264	5.5		5.5

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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