

Mobil Glygoyle HE Series

Polyalkylene Glycol (PAG) Worm Gear Lubricants

Product Description

Discontinued - The replacement product is Mobil Glygoyle Series.

Mobil Glygoyle HE Series is a family of high performance, highly efficient, fully synthetic, polyalkylene glycol (PAG) worm gear lubricants developed for use under operating conditions beyond the capabilities of other synthetic lubricants and mineral oils. They incorporate a proprietary additive package designed to provide EP/anti-wear protection, corrosion and rust protection and foam resistance without detracting from the intrinsic attributes of the polyglycol base oils. They also provide excellent lubricity and low traction to decrease gearbox friction, resulting in increased efficiency and reduced bulk oil temperature. The Mobil Glygoyle HE Series lubricants have outstanding thermal and oxidation stability that reduces sludge formation and deposit buildup. They are compatible with most seals and gaskets, but not with mineral oils. Their very low pour points ensure excellent low-temperature fluidity. They are hygroscopic, and do not separate from water.

The Mobil Glygoyle HE Series is primarily designed for the lubrication of worm gears, especially for heavy-duty, severe service applications. They have proven to be excellent lubricants for all types of industrial gears and plain and anti-friction bearings under extremely severe service conditions. They have provided outstanding results in lubricating gears and bearings.

Mobil Glygoyle HE Series products have gained the support of key OEMs and are the products of choice for many equipment operators, worldwide.

Features and Benefits

The Mobil Glygoyle brand of lubricants is recognised and appreciated around the world for their innovation and outstanding performance. The molecular designed polyalkylene glycol synthetic products, specially chosen for use in the Mobil Glygoyle HE Series, demonstrate the continuing commitment to using advanced technology to provide outstanding products. A key factor in the development of Mobil Glygoyle HE Series were the close contacts between our formulation scientists and application specialists with key OEMs to ensure that our product offerings will provide exceptional performance in the continually evolving industrial equipment designs.

Our formulation scientists worked closely with OEMs and key customers to develop the Glygoyle HE Series of products, specifically to formulate the leading lubricant for severe worm gear applications. Worm gears often operate under severe temperature conditions because, by design, they are relatively small units with high power ratings. The polyalkylene glycol structures chosen for these products were exposed to a rigorous protocol of testing, not the least of which is the assessment of their traction behaviour which is the key property determining worm gear efficiency. The resulting low traction products significantly improve worm gear efficiency and at the same time, reduce heat generated and bulk oil temperature.

Mobil Glygoyle HE Series lubricants offer the following features and potential benefits:



Features	Advantages and Potential Benefits
Superb thermal and oxidative stability and sludge resistance as well as excellent antiwear protection	Provides greater gear protection under severe load factor situations
	Increased production because of extended lubricant life, less scheduled and unscheduled downtime
	Lower maintenance costs and replacement expenditures
Low coefficients of friction and traction	Improved worm gear efficiency and lower oil operating temperatures for lower operating (power) costs and longer seal life.
High thermal conductivity	Lowers operating temperatures at the gear mesh and in the bulk oil by improved heat dissipation
High viscosity index, low pour point and absence of wax	Easy start-up because of excellent low-temperature fluidity - especially important for successful operation of remotely located equipment
Very good resistance to corrosion and rusting	Excellent equipment protection, even during downtime provides long equipment life and smooth start-up, with associated labour and material cost savings
Multipurpose industrial equipment capability	Potential to use less products and reduced inventory costs

Applications

As with other polyglycol-based lubricants, Mobil Glygoyle HE lubricants are not miscible with mineral oils and must not be used as make-up for systems filled with conventional mineral oils, nor must mineral oils be used as make-up for systems filled with Mobil Glygoyle products. Mobil Glygoyle Series are hygroscopic and do not separate from water. Due to their inherent high specific gravity, water does not drop to the bottom of reservoirs. The Mobil Glygoyle HE Series oils are compatible with many seal materials; however, there is the potential for substantial variations in the elastomers being used today. For best results, consult your equipment supplier, seal manufacturer, or your local Mobil representative to verify compatibility.

The Mobil Glygoyle HE Series is primarily designed for the lubrication of heavy-duty worm gears, but is also used to lubricate plain and rolling contact bearings and other industrial gearing in a wide variety of applications. Specific applications include:

- All worm gear applications such as those used in conveyers, escalators, material handling, press drives, packaging machinery, ski lifts, agitators and mixers.
- Other gear and bearing applications in the cement, metalworking, plastics, food and textile finishing industries.

Typical Properties

	Mobil Glygoyle HE 220	Mobil Glygoyle HE 320	Mobil Glygoyle HE 460	Mobil Glygoyle HE 680	Mobil Glygoyle HE 1000
ISO Viscosity Grade	220	320	460	680	1000
Viscosity, ASTM D 445 cSt @ 40° C	220	320	460	680	1000

	Mobil Glygoyle HE 220	Mobil Glygoyle HE 320	Mobil Glygoyle HE 460	Mobil Glygoyle HE 680	Mobil Glygoyle HE 1000
cSt @ 100° C	39.0	54.6	77.1	114.0	160.0
Pour Point, °C, ASTM D 97	-35	-30	-30	-20	-20
Flash Point, °C, ASTM D 92	275	275	260	265	265
Specific Gravity @20° C, ASTM D 4052	1.048	1.069	1.050	1.051	1.070

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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