



Mobil SHC™ Grease 100 EAL Series

Grease

Product Description

Mobil SHC™ Grease 101 EAL and 102 EAL are superior performance greases designed specifically for applications that require environmentally sensitive lubricants. These high performance greases are biodegradable and virtually non-toxic. They are formulated from a biodegradable synthetic ester base oil, carefully chosen high performance additives and a lithium soap thickener. The wax-free nature of the synthetic base fluid, together with its low traction coefficient, provide excellent low temperature pumpability and very low starting and running torque - a significant benefit considering that many environmentally sensitive applications are outdoors.

The Mobil SHC Grease 100 EAL Series is formulated for applications where grease leakage or run out could contaminate soil, groundwater, surface water systems, or indoor plant water systems. They are recommended for plain and rolling element bearings and couplings that operate at temperatures from -40°C to 120°C, with appropriate adjustments to re-lubrication interval. Mobil SHC Grease 101 EAL and 102 EAL are NLGI grade 1 and 2 respectively.

Features and Potential Benefits

The Mobil™ EAL brand of environmentally sensitive products has gained an exceptional reputation with OEMs and customers for its excellent performance. These greases provide the optimum balance between the need for environmentally friendly lubricants and the requirement for high performance lubricants for mobile and stationary mechanical equipment. Mobil SHC Grease 100 EAL Series greases are compatible with the previous generation Mobilgrease EAL 100 Series.

Mobil SHC Grease 101 EAL and 102 EAL offer the following benefits:

Features	Advantages and Potential Benefits
Virtually non-toxic in the OECD 203 Method Aquatic Toxicity Test	Minimal effects of spills on environment
Formulated from biodegradable synthetic ester base oil	Biodegradation of material in sensitive areas with minimal non-biodegradable residue, avoidance of costly clean-up in some jurisdictions
Good adhesion and water resistance	Resists water washout, avoiding need for frequent re-greasing
Excellent rust and corrosion protection	Excellent bearing protection in wet conditions, with long bearing life

Applications

Mobil SHC Grease 101 EAL and 102 EAL are members of the Mobil family of Environmental Awareness Lubricants (EAL) and are specifically designed for applications where contamination of the environment is a risk.

- Marine equipment
- Water treatment plants
- Dams, locks and water ways
- Construction equipment
- Farm machinery
- Hydroelectric generation plants

Specifications and Approvals

Mobil SHC Grease 100 EAL meets or exceeds the requirements of:	101	102
DIN 51825: (2004-06)	KPE1K-40	KPE2K-40

Typical Properties

Mobil SHC 100 Grease EAL Series	101	102
NLGI Grade	1	2
Thickener Type	Lithium	Lithium
Color, Visual	Tan	Tan
ISO Viscosity Grade of Oil	100	100
Dropping Point, ASTM D 2265, °C	180	180
Worked Penetration, ASTM D 217, mm/10 @ 25°C	325	280
Water Washout @ 79°C, ASTM D 1264, wt%	8.0	6.5
EMCOR Bearing Corrosion in Distilled Water, ASTM D 6138, Rating	0,0	0,0
Copper Corrosion, ASTM D 4048, Rating	1a	1a
Four Ball Weld, ASTM D 2596, kgf	200	200
Four Ball Load Wear Index, ASTM D 2596, kgf	35	34
US Steel Mobility @ -18°C, g/min	-	50
Low Temperature Torque @ -30°C, Start/Run, ASTM D 1478, gcm	-	800/170
Biodegradability of ester base oil, OECD 301B, wt%	74	74
Aquatic Toxicity, OECD 203, LL50 ppm	>10000	>10000

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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10-2013

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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

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