

BIOGREASE

EP0



DESCRIPTION

BIOGREASE EP0 is an environmentally acceptable Lithium / Calcium thickened lubricating grease based on fully saturated renewable esters.

APPLICATIONS

It is designed for use in sensitive marine environments and can be used in a variety of marine applications which demand a semi-fluid NLGI 0 grease, primarily for rudder stocks (centralized lubrication systems) and propeller hubs and caps.

VGP

BIOGREASE EP0 and its components have been evaluated by independent laboratories. Using these test results, Vickers Oils has determined that it meets the VGP definition of an Environmentally Acceptable Lubricant.

FEATURES

- BIOGREASE EP0 may be applied manually or via a centralized lubrication system using suitable pumps. The grease has a wide operating temperature with a lower working temperature of -25°C and an upper temperature of +140°C.
- BIOGREASE EP0 achieves a biodegradability of > 60% in the 28- day OECD 301B test, and is considered non-toxic in the marine environment.

BENEFITS

- Has good resistance to the washing action of rain and seawater (ASTM D1264).
- Provides effective corrosion protection to metals commonly found in the marine environment.
- Contains EP additives to reduce wear and friction and has good EP / load carrying capabilities.
- Resistant to oxidation (ASTM D942).
- Compatible with Nitrile and Fluoroelastomers (ASTM D4289)

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Accredited to the ISO 9001
Quality Standard and the
ISO 14001 Environmental
Management Standard



FM 01851 EMS 40717

BIOGREASE EPO



PERFORMANCE DATA

Wear Protection	Contains EP additives to reduce wear and friction and has good EP / load carrying characteristics. Performance in a 4-ball EP weld test 260 kg (ASTM D2596). Performance in an EP Timken test showed OK load 55 lbs (ASTM D2509).
Corrosion Protection	Provides effective corrosion protection to metals commonly found in the marine environment. Performance in copper corrosion test shows good protection to copper (1b ASTM D4048) and in the dynamic anti-rust (EMCOR) test achieves a 0,1 rating (ASTM D6138).
Water Resistance	Shows good resistance to the washing action of rain and sea water giving 4.7% washout at 38°C (ASTM D1264).
Seal Compatibility	Compatible with Nitrile and Fluoroelastomers (ASTM D4289).

TYPICAL CHARACTERISTICS AND PROPERTIES

BIOGREASE EPO	TEST METHOD	RESULT
Appearance	Visual	Amber Grease
Consistency	ASTM D217	NLGI 0
Kinematic Viscosity of Base oil @ 40°C (cSt)	ASTM D7042	150
Drop Point (°C)	ASTM D2265	174
Penetration worked @ 25°C	ASTM D217	367
4-ball weld load (kg)	ASTM D2596	260
Designation	DIN 51825	KPEON-25
Shelf Life		5 years in original sealed containers stored out of direct sunlight

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