

BIOGREASE EP2



DESCRIPTION

BIOGREASE EP2 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 NLGI 2 grease, for example:

- Rudder stocks
- Propeller hubs & caps
- Wire ropes
- Winches
- Deck equipment
- General greasing points

VGP

BIOGREASE EP2 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 EP2 may be applied manually or by suitable mechanical applicators e.g. grease compressor. The grease has a wide operating temperature with a lower working temperature of -25°C and an upper temperature of +130°C.
- BIOGREASE EP2 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.
- 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 EP2



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 is 400 kgf (ASTM D2596), and the performance in an EP Timken test showed OK load ≥ 40 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 1.8% washout at 38°C and 6.1% washout at 79°C (ASTM D1264).

Seal Compatibility

Compatible with Nitrile and Fluoroelastomers (ASTM D4289).

TYPICAL CHARACTERISTICS AND PROPERTIES

BIOGREASE EP2	RESULT	TEST METHOD
Appearance	Amber Grease	Visual
Consistency	NLGI 2	ASTM D217
Kinematic Viscosity of Base oil @ 40°C (cSt)	150	ASTM D7042
Drop Point (°C)	178	ASTM D2265
Penetration worked @ 25°C	274	ASTM D217
4-ball weld load (kg)	400	ASTM D2596
Shelf Life	5 years in original sealed container stored out of direct sunlight	

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