

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 & ECOLABEL



EU Ecolabel : NL/027/018

BIOGREASE EP2 and its components have been evaluated by independent laboratories. Using these test results, it has been awarded the European Ecolabel for lubricants and therefore meets the VGP definition of an Environmentally Acceptable Lubricant.

The EU Ecolabel is a label of environmental excellence that is awarded to products and services meeting high environmental standards throughout their life-cycle: from raw material extraction, to production, distribution and disposal.

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)

BENJ^R R. VICKERS & SONS LTD.

Registered Office
6 Clarence Road, Leeds,
LS10 1ND, United Kingdom

Registered in England
Company No. 00130013

Tel: +44 (0) 113 386 7654
Web: www.vickers-oil.com
Email: inbox@vickers-oil.com

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



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

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