Trusted for Generations

H.S.T.N: 34039900
REF: MKT.PDS.79
REV: 8

BIOGREASE EP0

EAL Environmentally Acceptable Marine

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 (centralised lubrication systems) and propeller hubs and caps.

VGP & ECOLABEL

EU Ecolabel www.ecolabel.eu

EU Ecolabel : NL/027/018

BIOGREASE EP0 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 EP0 may be applied manually or via a centralised 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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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 >315 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 4.6% washout at 38°C (ASTM D1264).

Seal Compatibility

Compatible with Nitrile and Fluoroelastomers (ASTM D4289).

TYPICAL CHARACTERISTICS AND PROPERTIES

BIOGREASE EP0	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	>315
Designation	DIN 51825	KPEON-25
Shelf Life		5 years in original sealed containers stored out of direct sunlight

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