

# **BIO OG PLUS**



### **Description**

Extreme pressure, adhesive and biodegradable grease designed for the lubrication of open gears and chains working under water, or in environments where water contamination is common and when a lubricant with a wide temperature range is required along with high load capability.

### **Applications**

Lubrication of environmentally sensitive applications such as open gears and chains under high load.

### **Typical Characteristics**

## **EAL Grease**

### **Approvals**

BIO OG PLUS is:

- + >60% biodegradable following OECD 301B
- + formulated in accordance with VGP EAL (Vessel General Permit Environmentally Acceptable Lubricant)
- + compliant with ISO 6743-9: L-XBBIB 1
- + compliant with DIN 51502: OGP1E-20

#### **Features and Benefits**

BIO OG PLUS meets the most challenging industrial requirements:

- + Excellent mechanical stability and good adhesiveness.
- + Forms a durable lubrication film resulting in reduction of maintenance and down-time costs.
- + Remarkable load resistance thanks to its high extreme pressure and anti-wear properties.
- + Excellent water resistance and good anticorrosion performance, even under sea water.
- + Non toxic towards aquatic environment and highly biodegradable.

	Methods	Units	
Soap/thickener	_		Calcium
Color	Visual		Beige
Appearance	Visual		Adhesive
NLGI grade	ASTM D 217	grade	1
Operating temperature range		°C	from -20 to 90
Penetration at 25°C	ASTM D 217	0.1 mm	310-340
Four ball weld load	ASTM D2596	Kgf	500
Dropping point	ISO 2176	°C	150
EMCOR, distilled water	ISO 11007	rating	0/0
EMCOR, synthetic sea water	ISO 11007	rating	2/2
Base oil type			Ester
Kinematic viscosity of base oil mix at 40°C	ISO 3104	mm²/s	990
Water spray off (40 psi / 38°C)	ASTM D 4049	%	42

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### Handling, Health & Safety

BIO OG PLUS consists of synthetic base oil with specific additives. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin or eyes. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: www.quickfds.com and www.totallubmarine.com