

Sinova Marine BIO GEAR EAL 220

Biodegradable Oil

Product description:

Sinova Marine BIO GEAR EAL 220 is designed for use in environmentally sensitive areas where there is a risk of incidental spillage. It has excellent extreme-pressure properties and a high scuffing load capacity, ensuring good protection for gears operating under high load. It also offers high corrosion protection, even in salt water.

Application:

It is an Environmentally Acceptable Lubricant (EAL) as per the US 2013 Vessel General Permit (VGP). Sinova Marine BIO GEAR EAL 220 has been designed to replace mineral gear oils for enclosed gears and bearing lubrication.

Features & Benefits:

Sinova Marine BIO GEAR EAL 220 is a lubricant with high oxidation stability and good lubrication properties, performing better than mineral oils at both high and low temperatures. Its high pour point and low-temperature viscosity make it suitable for cold starts.

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	220
Density at 15°C	g/cm ³	ASTM D 4052	1.000
Kinematic Viscosity at 40°C	mm ² /s	ASTM D 445	220.0
Kinematic Viscosity at 100°C	mm ² /s	ASTM D 445	25.45
Viscosity Index	-	ASTM D 2270	146
Flash Point, COC	°C	ASTM D 92	286
Pour Point	°C	ASTM D 97	-39
FZG test	-	ISO 1635-1	>13

Typical property characteristics are based on current production. Whilst future production will conform to Sinova specifications, variations in these characteristics may occur.

Performance claims

- US Vessel General Permit Compliant
- HHI thrusters
- SCANA
- WÄRTSILÄ
- ZF PROPULSION

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Biodegradable Oil**Health, Safety & Environment:****Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website:

www.sinovagroup.ch

Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Available pack sizes:

- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.