

Sinova Marine Stern M220

Biodegradable Oil

Product description:

Sinova Marine Stern M220 lubricants are high-performance emulsifying stern tube oils for marine stern tube systems. They meet the EPA's 2013 Vessel General Permit (VGP) guidelines for "environmentally acceptable lubricants". They emulsify easily with seawater, providing an excellent adhesive and lubricant. They protect against rust in seawater and are resistant to water washing. This maintains corrosion protection for severe operating conditions.

Application:

Marine stern tube systems, fin stabilisers, and specific controllable-pitch propeller systems are used in situations where spills or leakage could result in adverse environmental impact, such as in systems where readily biodegradable and minimally toxic fluids may be required, or in marine and mobile equipment operating in environmentally sensitive areas, or in circulation systems operating under mild to moderate service conditions.

Features & Benefits:

- Excellent load-bearing capability.
- Excellent corrosion protection.
- Compatible with most typical mineral oils.
- These oils are used for stern tubes.
- Good elastomer compatibility: it is compatible with many of the elastomers used with conventional mineral oils.

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	220
Density at 15°C	g/cm ³	ASTM D 4052	0.931
Kinematic Viscosity at 40°C	mm ² /s	ASTM D 445	220.0
Kinematic Viscosity at 100°C	mm ² /s	ASTM D 445	23.82
Viscosity Index	-	ASTM D 2270	200
Flash Point, COC	°C	ASTM D 92	163
Pour Point	°C	ASTM D 97	-12
Bioaccumulation, Partition Coefficient, Log Pow	-	OECD 117	<3
Rust-Preventing Characteristics, A&B	-	ASTM D665	Pass
FZG test	-	ISO 1635-1	11
Shake-Flask Test, CO ₂ Evolution (Mod. Sturm)	%	OECD 301B	>60
Acute Algae Toxicity EC50/72h	mg/l	OECD 201	>1000
Acute Daphnia Toxicity EC50/48h	mg/l	OECD 202	>1000
Acute Fish Toxicity EC50/96h	mg/l	OECD 203	>1000

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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 EPA VGP:2013

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

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