

Sinova Marine GEAR EP 460

Industrial gear oil

Product description:

Sinova Marine GEAR EP 460 is a premium-quality industrial gear oil with outstanding extreme-pressure characteristics, formulated with carefully selected base stocks and the latest sulfur-phosphorus additives. Its special active-substance combination offers excellent load-carrying capacity and micro-pitting performance, providing long component life even under shock-loading conditions.

Application:

Sinova Marine GEAR EP 460 is recommended for industrial applications operating under heavy-duty conditions, such as heavy loading, slow speed, shock loads, and wide temperature extremes. This includes, but is not limited to, enclosed industrial spurs, bevel, herringbone, helical, and epicyclic gears, chain drives, sprockets, and most metal-on-metal systems requiring extreme-pressure lubricant.

Features & Benefits

- Outstanding wear protection
- Exceptional sludge and deposit control
- Low tendency to foam
- Excellent anti-corrosion properties
- High pressure-absorption capability
- Extended equipment life
- Better compatibility with seal materials

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	460
Density at 15°C	g/cm ³	ASTM D 4052	0.902
Kinematic Viscosity at 40°C	mm ² /s	ASTM D 445	460.0
Kinematic Viscosity at 100°C	mm ² /s	ASTM D 445	29.25
Viscosity Index	-	ASTM D 2270	91
Flash Point, COC	°C	ASTM D 92	256
Pour Point	°C	ASTM D 7346	-9
Copper Strip Corrosion	-	ASTM D 130	1
Water Separability			
-time to 3 ml emulsion, min.	-	ASTM D 7451	40
FZG EP Wear Test (A 8.3/90)			
-Failure Load Stage	-	ASTM D 5182	12

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

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Performance claims

- AIST 224
- AGMA 9005-E02
- ISO 12925-1 Type CKC
- David Brown S1.53.101(E)
- DIN51517-3 (CLP)

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.

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