



PRODUCT INFORMATION & DATA SHEET

PRINCE® MARINO GOLD 4T SAE 5W-30

The Best-In-Class Fully Synthetic Marine 4T Motor Oil.

PRINCE® MARINO GOLD 4T SAE 5W-30 is a special low-friction, fully synthetic motor oil primarily designed for application in state-of-the-art, high-performance four-stroke gasoline outboard engines to ease fuel economy and reduce harmful pollutant. Ideally suitable also for use in newer generation inboard engine fitted with catalytic converter, as well as sterndrive and personal watercraft engines. This excellent motor oil had been meeting the requirements of NMMA FC-W Catalyst Compatible by offering comprehensive protection on engines with exhaust after treatment system.

This motor oil meets the performance standards of following specifications:

API SN, JASO MA, NMMA FC-W Catalyst Compatible

We recommend this product to be use on:

Honda Marine, Suzuki Marine, Yamaha Outboard

Some of the benefits of using this motor oil:

- Anti-clogging and anti-foaming properties designed to protect all oil filters and prevent air bubbles entered into oil circuit system.
- Contains excellent additive and inhibitor package to provide unsurpassed protection against wear, corrosion and rust in humid environment.
- Excellent shear and viscosity stability allow lubricant to 'stay-in-grade' to ensure constant lubrication reliability and longer service life.
- High thermal resistant properties prevent thermal breakdown and additive depletion under high Rpm and heavily-loaded operating conditions.
- Low viscosity ensures rapid oil flow to protect all crucial components during cold ambient temperature, facilitate good cold-start behavior.
- Outstanding low volatility fully synthetic base oils fortified with friction co-efficient allow better fuel economy and lower oil consumption.
- Stable aging and oxidation guarantee to minimize oil degradation and maintain engine parts cleanliness by eliminating left-over deposits.
- Tested safe for use with catalytic converters equipped in many new generation boats.

Areas of application

Designed for offshore application in variety of four-stroke gasoline engines, including outboard, inboard, sterndrive engines equipped with or without turbocharger, with or without catalytic converters operating under normal to heavy load conditions. Ideally suited for use in both new and older four-stroke engines require the viscosity grade and specifications of this particular product according to the manufacturers' recommendation.

Typical properties

SAE Viscosity		5W-30
Viscosity Index (VI)	ASTM D2270	159
Viscosity at 100 °C; mm ² /s	ASTM D445	11.5
Viscosity at 40 °C; mm ² /s	ASTM D445	70
Density at 20 °C; kg/m ³	ASTM D4052	850.0
Noack Volatility; % m/m	ASTM D5800	5.5
Flash Point; °C, open cup	ASTM D92	240
Pour Point; °C	ASTM D97	-39
Total Base Number	ASTM D2896	7.7

Service recommendations

Follow the service interval and operating instructions of manufacturers. Can as well be tuned to own use. Recommend to flush before add in new oil. Change oil filter at time of oil change.

Commercially available product compatibility

Our fully synthetic 4T motor oil is compatible with synthetic, semi-synthetic and conventional mineral oils. However, peak performance is guaranteed only upon using alone without mixing with other motor oils.

Product availability

This product may not be available locally. Contact your local distributor.

The information show herein is subject to change without noticed. The product indicated here have been developed by PRINCE LUBRICANTS for use in the areas of applications shown. We reserve all right to alter the characteristics and product properties to align with continually technical development.