

<b>Product</b>	<b>Sinopec TC-W3 Outboard Engine Oil</b>
<b>Summary</b>	<b>Product description</b> Sinopec TC-W3 Outboard Engine Oil is designed especially for use in high-performance, two-stroke, water-cooled marine outboard engines, where it ensures cleanliness and optimum engine performance. It is pre-diluted to aid mixing when added to fuel.

## Applications

Sinopec TC-W3 Outboard Engine Oil is suitable for use in:

- High-performance, water-cooled, two-stroke marine outboard gasoline engines, such as those used in motor boats and assault boats, where a TC-W3 quality oil is recommended.
- Water-cooled, two-stroke jet ski engines.
- Air-cooled, light and medium sized two-stroke engines.

## Features and benefits

- Meets the specific requirements of a TC-W3 lubricant, for use in water-cooled, two-stroke outboard gasoline engines.
- Cleaner combustion reduces the amount of soot in the exhaust gases, and reduces spark-plug fouling – so minimising pre-ignition problems.
- Excellent detergent qualities keep the engine clean and reduce piston-ring sticking and build up of carbon deposits, thereby ensuring good engine performance and optimum power output and reducing maintenance time and costs.
- Good anti-corrosion properties, together with excellent lubricity, protect engine parts against rusting, corrosion and wear, extending engine life.
- Very low biological toxicity, ensures the product does not harm marine life and protects the ecosystem from pollution.
- Suitable for both winter and summer use.
- Pre-diluted formulation can be used in oil-injection systems, or can be mixed with fuel in pre-mix systems.
- Recommended fuel:oil ratio between 25:1 and 50:1.

# Product Data Sheet

## Typical data

<b>Sinopec TC-W3 Outboard Engine Oil</b>	
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	39.41
cSt @ 100°C	7.11
Viscosity index, ASTM D 2270	144
Sulfated ash, wt%, ASTM D 874	0.01
Pour point, °C, ASTM D 97	-37
Flash point (COC), °C, ASTM D 92	124
Density @ 20°C, kg/l, ASTM D 4052	0.867

These data are given as an indication of typical values and not as exact specifications.

## Industry and OEM specifications

<b>Sinopec TC-W3 Outboard Engine Oil meets the performance requirements of the following industry specifications:</b>	
GB <sup>1</sup>	SH/T 0676
NMMA	TC-W3

<sup>1</sup> Note: 'GB' standards are the National Standards of the People's Republic of China.

## Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

## Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

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Issued: September 2011

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