

## PRODUCT DATA SHEET

# Royal Outboard Motor Oil TC-W3

## Outboard Motor Oil



### PRODUCT DESCRIPTION:

**Royal Outboard Motor Oil TC-W3** is specially formulated for use in all high performance two-cycle outboard motors, including models equipped with oil injection systems. It contains a unique ashless additive package which provides maximum wear protection while reducing deposits, piston and cylinder scuffing, as well as reducing spark plug fouling.

**Royal Outboard Motor Oil TC-W3** should be mixed according to the ratio recommended by the engine manufacturer, up to a 1:100 ratio. The NMMA Qualification Number granted this oil is RL-27046F.

#### KEY FEATURES:

- For use in small 2-cycle engines
- Ashless additive package

#### CUSTOMER BENEFITS:

- Reduced spark plug fouling
- Maximum anti-wear protection

### APPLICATIONS:

It is fully TC-W3 approved by the NMMA, satisfying the warranty requirements of major outboard motor manufacturers such as Chrysler, Eska, Evinrude/Johnson, Mariner, Nissan, Sea King, Suzuki, Sears/Gamefisher and Yamaha.

**Royal Outboard Motor Oil TC-W3** is also ideal for other two-cycle engines such as those found in snowmobiles, motorcycles, scooters, lawn mowers, snow blowers, chain saws and generators.

### PACKAGING:

Drums, Totes, Pails and Quarts

### SPECIFICATIONS AND APPROVALS:

TC-W3

## PRODUCT DATA SHEET

### Royal Outboard Motor Oil TC-W3 Outboard Motor Oil



### Typical Properties

Royal Outboard Motor Oil TC-W3		
Product Number	193	Test Method
API	32.34	-
Specific Gravity@60°F	0.86365	ASTM 4052
Lbs/Gal	7.192	
Density	0.86317	
Flash Point@°C	180	ASTM D92
Pour Point@°C	-18	ASTM D97
ASTM Color	<2.0	ASTM D1500
Viscosity@40°C, cSt	81.95	ASTM D445
Viscosity@100°C, cSt	8.78	ASTM D445
Viscosity Index (VI)	73	ASTM D2270

*Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.*

#### Health and Safety:

*When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, [www.royalmfg.com](http://www.royalmfg.com), or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.*