

CITGO SUPERGARD® MARINE PLUS  
TWO-CYCLE ENGINE OIL

Date 08/11

**DESCRIPTION:** CITGO SUPERGARD Marine Plus Two-Cycle Engine Oil meets or exceeds NMMA® TC-W3®. It effectively combats wear, scuffing, deposit build-up, and enhances lubricity to provide longer engine life.

- BENEFITS:**
- Reduces carbon and deposit build-up on engine parts.
  - Helps prevent piston ring sticking.
  - High film strength for improved lubricity which provides:
    - Increased engine efficiency.
    - Excellent scuffing protection of rings and cylinder and reduced bearing wear.
    - Cleaner, better-running engines producing less smoke.

**APPLICATIONS:** CITGO SUPERGARD Marine Plus Two-Cycle Engine Oil is recommended for all water-cooled or liquid-cooled two-cycle engines requiring an NMMA TC-W3, TC-WII® or TC-W® type oil. It may also be used in many air-cooled two-cycle engine applications requiring API Service Category TC. Recommended for both direct injected and pre-mix systems.

CITGO SUPERGARD Marine Plus Two-Cycle Engine Oil will provide protection for gasoline fueled two-cycle engines when used at the primary dilution recommended by the original equipment manufacturer.

**TYPICAL PROPERTIES:****CITGO SUPERGARD® MARINE PLUS TWO-CYCLE ENGINE OIL**

Material Code	621602001
Gravity, ASTM D 4052, °API	31.5
Density, lb/gal at 60°F	7.23
Flash Point, PMCC, ASTM D 93, °F (°C)	178 (81) <sup>(1)</sup>
Flash Point, COC, ASTM D 92, °F (°C)	197 (92)
Viscosity, ASTM D 445, cSt at 40°C	32.0
cSt at 100°C	5.9
ASTM D 2161, SUS at 100°F	163
SUS at 210°F	46
Viscosity Index, ASTM D 2270	130
Pour Point, ASTM D 97, °F (°C)	-38 (-39)
Appearance, Color	Blue/Green
Sulfated Ash, ASTM D 874, %	<0.004
Total Base Number, ASTM D 2896, mgKOH/g	8.6

**NOTE**

(1) Combustible liquid