

CITGO SUPERGARD® SEA AND SNOW™ 2-CYCLE ENGINE OIL



Date 1/09

- DESCRIPTION:** CITGO SUPERGARD Sea and Snow 2-Cycle Engine Oil is a synthetic blend, low smoke oil designed for use in high performance air-cooled or liquid two-stroke engines of Personal Water Craft (PWC) and Snowmobiles.
- QUALITIES:** SUPERGARD Sea and Snow 2-Cycle Engine Oil is engineered for lower smoke and advanced protection for air-cooled 2-cycle engines. The synthetic blend formula meets or exceeds the rigorous requirements of the API TC, JASO FC and ISO EGD classifications for 2-cycle air-cooled engine oils and also exceeds the performance requirements for JASO FA, JASO FB, ISO-L-EGB, and ISO-L-EGC. This advanced oil helps protect today's high performance air-cooled 2-cycle engines against exhaust port blocking, combustion chamber and piston deposits, ring sticking and scuffing, and wear. The JASO FC Certification Number is 001 CGO 535.
- SUPERGARD Sea and Snow is formulated with premium CITGO base oils and a new synthetic low ash additive package that provides excellent lubricity and detergency performance that surpasses standards for preventing piston and combustion chamber deposits. In addition, SUPERGARD Sea and Snow is a synthetic blend which reduces exhaust smoke and prevents piston seizure and cylinder scuffing. SUPERGARD Sea and Snow is prediluted to allow easy mixing with gasoline and smooth flowing in oil injection systems.
- APPLICATIONS:** CITGO SUPERGARD Sea and Snow 2-Cycle Engine Oil is recommended for use in air-cooled, 2-cycle applications where an API TC, JASO FD, and ISO EGD product is preferred. It can be used in either premix or oil injection systems up to 50:1 fuel ratios. It may also be used in certain motorcycle engines which are liquid cooled. Not recommended for engines requiring an NMMA TC-W3, TC-WII, or TC-W product.
- SUPERGARD Sea and Snow is formulated primarily for use in snowmobiles and personal watercraft. It can be used in motorcycles, generators, lawnmowers, and hand held power equipment such as leaf blowers, trimmers, and chainsaws. SUPERGARD Sea and Snow provides the necessary protection to keep your snowmobile or PWC running cleaner, longer, and with less smoke.

TYPICAL PROPERTIES:

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Material Code	621612001
Gravity, ASTM D 4052, °API	32.5
Density, lb/gal at 60°F	7.19
Flash Point, PMCC, ASTM D 93, °F (°C)	158 (70)
COG, ASTM D 92, °F (°C)	194 (90)
Viscosity, ASTM D 445, cSt at 40°C	56
cSt at 100°C	8.5
ASTM D 2161, SUS at 100°F	288
SUS at 210°F	54.9
Viscosity Index, ASTM D 2270	126
Pour Point, ASTM D 97, °F (°C)	-44 (-42)
Appearance, Color	Purple
Sulfated Ash, ASTM D 874, %	0.10
Total Base Number, ASTM D 2896, mg KOH/g	1.1