PRODUCT DATA SHEET

Athen Marine Outboard 2T

High-performance 2-Cycle Outboard Engine Oil

Product Description

Athen Marine Outboard 2T is an efficient, premium-performance, two-stroke marine modern water-cooled outboard engine, formulated with an ashless additive system. It is pre-diluted with a high-flashpoint, low-aromatic solvent, which aids easy mixing with gasoline across a wide temperature range. It is designed for the harsh operating conditions of the marine environment and exceeds the stringent performance requirements of the latest National Marine Manufacturers Association's specification NMMA TC–W3.

Features & Benefits

- **High Power Output:** Highly refined mineral oil and ashless additives offer piston cleanliness and help maintain engine performance
- **Reduced Maintenance Costs:** A robust additive system helps protect against wear under high-speed, peak-performance operation
- **Keep-Clean Performance:** Formulated to offer protection against ring sticking, thus maintaining combustion efficiency and power output
- **Optimum Spark Plug Life:** Ashless additive system helps reduce spark plug fouling under a wide range of operating conditions

Applications

- It is recommended for water-cooled two-cycle outboard engines and personal watercraft applications
- It is designed for use at most engine manufacturers' fuel/oil ratios and is well suited for use in oil-injected engines as well as in engines where the oil is mixed with gasoline
- It is miscible with gasoline, even at low temperatures
- Also recommended for 2-cycle, water-cooled outboard engines where NMMA TCW2, NMMA TCW, or other general-purpose lubricants are required

Athen Marine Outboard 2T		
Performance meets/exceeds the specifications		
NMMA TC-W3		
Test Parameters	**ASTM Method**	**Typical**
Density @ 15°C, kg/l	D 1298	0.865
Viscosity @ 100°C, cSt	D 445	7.5
Viscosity Index	D 2270	125
Flash Point, °C	D 92	95
Pour Point, °C	D 97	-30
BN, mg KOH/g	D 2896	3.5

"Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations that do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS'