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DATA BULLETIN

The First in Synthetics®

Briggs & Stratton Synthetic 4T Racing Oil



Briggs & Stratton Synthetic 4T Racing Oil is the brainchild of a joint effort between Briggs & Stratton* engineers and AMSOIL INC. Briggs & Stratton came to us with a request: develop a motor oil capable of maximizing horsepower while handling the intense heat and shearing forces inside its competition four-stroke engines. Synthetic 4T Racing Oil is the result. It's specially engineered for competition engines without the shortcomings of automotive, PAG or conventional "karting" oils. It's perfect for racers who want to get the most horsepower and longest life from their engines used in kart, junior drag, quarter midget and other racing applications.

Formulated to Reduce Heat

Synthetic 4T Racing Oil is formulated with pure synthetic base oils that resist extreme heat common to air-cooled racing engines better than conventional oils. Its increased thermal stability helps reduce operating temperatures and guards against sludge and deposits that rob engines of power, promoting optimum engine performance and life.

Maximizes Horsepower

Synthetic 4T Racing Oil combines the horsepower of a lite oil with the wear protection of a heavier oil. It is engineered with specialized friction modifiers and advanced additives that reduce energy loss due to friction. Using Synthetic 4T Racing Oil helps racers put more power to the ground.

Fights Engine Wear

Synthetic 4T Racing Oil is engineered with powerful anti-foam agents. It resists foam common to high-rpm operation to form a durable lubricating film between engine parts, keeping engines protected in the most extreme conditions.

Resists Corrosion

Synthetic 4T Racing Oil contains corrosion inhibitors to guard against the formation of corrosion between races and during longer periods of storage.

- **Tested and validated** by Briggs & Stratton and AMSOIL
- **Combines** the protection of a heavier oil with the performance of a lite oil
- **Reduces** harmful heat
- **Inhibits** foam
- **Resists** corrosion

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TYPICAL TECHNICAL PROPERTIES
Synthetic 4T Racing Oil (GBS2960)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	11.6
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	72.2
Viscosity Index (ASTM D2270)	156
Pour Point, °C (°F) (ASTM D97)	-46 (-51)
Flash Point, °C (°F) (ASTM D92)	226 (439)
Fire Point, °C (°F) (ASTM D92)	244 (471)
Four-Ball Wear Test (ASTM D4172 @ 40 kg, 75°C, 1200 rpm, 1 hr), scar, mm	0.36
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	9.7
High-Temperature/High-Shear Viscosity @150°C, 1.0 x 10^6 $s.^{-1}$, cP (ASTM D5481)	4.2

APPLICATIONS
Use Briggs & Stratton Synthetic 4T Racing Oil in stock and modified small-displacement air-cooled racing engines used in kart, junior drag, quarter midget and other racing applications. It is recommended for any four-stroke air-cooled competition engine, whether single- or multi-cylinder, splash- or pressure-lubricated, including Briggs & Stratton* V-Twin engines requiring the listed viscosity and lubricating properties. Synthetic 4T Racing Oil is recommended for alcohol- and gasoline-fueled engines. Compatible with mineral oils

RECOMMENDATIONS
Do not mix with other oils when converting to Synthetic 4T Racing Oil. Drain the existing oil from the engine and refill with Synthetic 4T Racing Oil. Run engine at idle – low speeds for 2-3 minutes. Drain oil and refill with Synthetic 4T Racing Oil.

SERVICE LIFE
Follow the original equipment manufacturer (OEM) or engine builder's recommendations.

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AMSOIL The First in Synthetics®

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