Daryl Zebrasky

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AMSOIL Regulatory Compliance

DATA BULLETIN

AMSOIL 100% Synthetic 4T Performance Motorcycle Oil

Reduces Heat and Protects Against Wear



Motorcycles are often driven aggressively and in stop-and-go conditions. This scenario increases engine heat, especially during hot weather. Elevated heat breaks down mineral oils, reducing their ability to protect against wear. For maximum performance, motorcycle owners need a motor oil designed to resist extreme heat; guard against wear; and provide smooth, confident shifts. AMSOIL 100% Synthetic 4T Performance Motorcycle Oil is formulated for the high temperatures common to air-cooled V-twins, aggressively driven sport bikes and daily drivers operating in the most severe conditions. It delivers the confidence and security that come with outstanding protection and performance.

Reduces Friction, Heat and Wear

AMSOIL 4T Performance Motorcycle Oil's high-quality synthetic base oils naturally reduce friction better than mineral oils. Its outstanding high-temperature film strength and anti-wear additives reduce engine and transmission wear regardless of operating conditions. It is thermally (heat) stable and contains oxidation-inhibitor additives that help maintain proper lubrication, even in extreme heat. AMSOIL 4T Performance Motorcycle Oil's excellent friction-reduction and heat-transfer properties help keep engines running cool.

Smooth, Confident Shifts

AMSOIL 4T Performance Motorcycle Oil promotes smooth shifting and positive wet-clutch engagement. It is engineered to control heat and prevent slippage and glazing, promoting long clutch life.

Excellent Engine Cleanliness

High-revving, hot-running motorcycle engines can accumulate performance-robbing engine deposits. AMSOIL 4T Performance Motorcycle Oil contains advanced detergency additives that help clean critical engine components, neutralize harmful acids and reduce deposits for maximum performance.

Helps Reduce Oil Consumption

Volatility refers to a lubricant's tendency to evaporate when exposed to high heat. Motor oils that volatilize more readily lead to increased oil consumption, which requires motorcycle owners to frequently top-off their oil. Volatility also leads to increased oil viscosity, which negatively affects energy efficiency. AMSOIL 4T Performance Motorcycle Oil features low volatility, meaning it helps reduce oil consumption and maintains its viscosity for optimum performance.

- **Cools** hot engines
- **Protects** against wear
- **Delivers** smooth shifts
- **Promotes** quiet operation
- **Cleans** engine components
- **Provides** superior clutch performance

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TYPICAL TECHNICAL PROPERTIES
100% Synthetic 4T Performance Motorcycle Oil

	MC3 10W-30	MC4 10W-40	MC5 20W-50
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	12.0	14.6	19.8
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	76.3	98.4	165.9
Viscosity Index (ASTM D2270)	153	154	138 . . .
Pour Point, °C (°F) (ASTM D97)	-42 (-44)	-37 (-35)	-35 (-31).
Flash Point, °C (°F) (ASTM D92)	228 (442)	234 (453)	240 (464)
Fire Point, °C (°F) (ASTM D92)	248 (478)	262 (504)	262 (504)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	5.6	5.5	3.6
High-Temperature/High-Shear Viscosity @ 150°C, 1.0 x 10^6 s^{-1}, cP (ASTM D5481)	3.7	4.4	5.5
Total Base Number (ASTM D2896)	9.0	9.0	9.0

Delivers Superior Corrosion Protection
Motorcycles are prone to corrosion from humidity and short drives. Corrosion can cause major damage, such as uncontrolled wear, compression loss and blow-by. Good corrosion protection, however, comes by design and is not natural to motor oils. Unlike many motorcycle oils, AMSOIL 100% Synthetic 4T Performance Motorcycle Oil contains special anti-corrosion agents that deliver superior corrosion protection. It provides outstanding protection from acid corrosion and helps maintain engine cleanliness.

APPLICATIONS
Use **10W-30 100% Synthetic 4T Performance Motorcycle Oil** in motorcycles that require 10W-30 motorcycle oil and any of the listed specifications.

- JASO MA/MA2 • API SL, SJ, SH, SG

Use **10W-40 100% Synthetic 4T Performance Motorcycle Oil** in motorcycles that require 10W-40 motorcycle oil and any of the listed specifications.

- JASO MA/MA2 • API SN, SM, SL, SJ, SH, SG

Use **20W-50 100% Synthetic 4T Performance Motorcycle Oil** in motorcycles that require 20W-50 or 15W-50 motorcycle oil and any of the listed specifications.

- JASO MA/MA2 • API SN, SM, SL, SJ, SH, SG

SERVICE LIFE
Follow the motorcycle manufacturer's recommended oil change interval.

HEALTH & SAFETY
This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

AMSOIL
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