



The First in Synthetics®

## 10W-40 Synthetic Motorcycle Oil

### High-Performance Lubricant for Engines and Transmissions

AMSOIL 10W-40 Synthetic Motorcycle Oil is a premium oil designed for those who demand the absolute best lubrication for their motorcycles. It is the result of extensive research and is specially formulated to excel in all areas unique to motorcycles, including high engine rpm, wet-clutch lubrication, extreme-pressure regions of gears and rust common to short drives and storage. AMSOIL 10W-40 Synthetic Motorcycle Oil is multi-functional and fulfills the requirements of both domestic and foreign motorcycles.

*AMSOIL, the leader in synthetic lubrication, produced the world's first API-qualified synthetic motor oil in 1972. Trust the extensive experience of AMSOIL, The First in Synthetics®, to do the best job protecting your motorcycle.*

#### Reduces Friction, Heat and Wear

In high-heat conditions, engine protection is not sacrificed with AMSOIL 10W-40 Synthetic Motorcycle Oil. It exceeds the standard for high-temperature film strength to deliver excellent wear protection (see graph) and contains a heavy treatment of anti-wear additives to reduce wear regardless of operating conditions. AMSOIL 10W-40 Synthetic Motorcycle Oil is thermally (heat) stable and contains maximum levels of oxidation inhibitor additives. It is extremely resistant to breakdown and is engineered to prevent damaging sludge and carbon deposits for superior engine cleanliness.

#### Provides Extreme-Pressure Quality Protection for Gears

With AMSOIL 10W-40 Synthetic Motorcycle Oil, there is no need for separate transmission lubricants. It is shear stable and resists thinning from mechanical activity. It performs like a gear lube without the negative effects of extreme-pressure additives. In the FZG gear test, it achieved a perfect score with a "zero" wear rating.

#### Delivers Superior Rust Protection

Motorcycles are prone to rust from storage, humidity and short drives. Rust can cause major damage, such as uncontrolled wear, compression loss and blow-by. Good rust protection, however, comes by design and is not natural to engine oils. Unlike many motorcycle oils, AMSOIL 10W-40 Synthetic Motorcycle Oil contains special anti-rust agents. It passes the ASTM D 1748 humidity cabinet rust test, demonstrating superior rust protection.

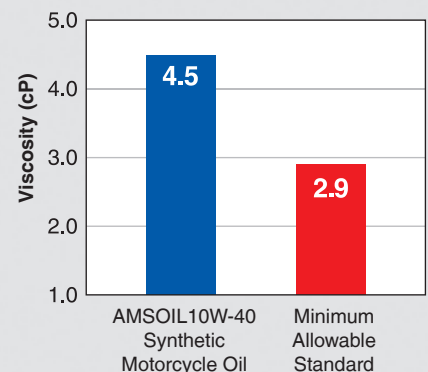
#### Provides Excellent Wet-Clutch Performance

AMSOIL 10W-40 Synthetic Motorcycle Oil contains no friction modifiers and promotes smooth shifting and positive clutch engagement. It is engineered to control heat and prevent slippage and glazing, helping improve clutch life, while meeting the wet-clutch frictional requirements of JASO Standard T903:2006, MA/MA2 and ISO-L-EMA2 of ISO Standard 24254:2007.



### High-Temperature Viscosity Protection (ASTM D 4683)

February 2011 Test Results



**Higher values reflect better film strength.**

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## TYPICAL TECHNICAL PROPERTIES

### AMSOIL 10W-40 Synthetic Motorcycle Oil (MCF)

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Kinematic Viscosity @ 100°C, cSt (ASTM D 445)	13.8
Kinematic Viscosity @ 40°C, cSt (ASTM D 445)	93.9
Viscosity Index (ASTM D 2270)	152
Pour Point °C (°F) (ASTM D 97)	-46 (-51)
Flash Point °C (°F) (ASTM D 92)	230 (446)
High-Temperature/High-Shear Viscosity (ASTM D 4683 @ 150°C, 1.0 X 10 <sup>6</sup> s <sup>-1</sup> ), cP	4.5
Four-Ball Wear Test (ASTM D 4172 @ 40 kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.40
FZG (ASTM D 5182), Load Stage Pass (Wear in mm)	13 (0 mm)
NOACK Volatility, % weight loss (g/100g) (ASTM D 5800)	7.1
Foam (ASTM D 892, Sequence I, II & III)	0/0/0
Shear Stability Kurt Orbahn (ASTM D 6278), % viscosity change 120 cycles	0.50
Rust Test - Humidity Cabinet (ASTM D 1748)	No Rust, PASS
Total Base Number	11.1

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### APPLICATIONS

AMSOIL 10W-40 Synthetic Motorcycle Oil is recommended for liquid- or air-cooled four-stroke engines. It meets SAE 80W/90, API GL-1 gear oil requirements and is recommended for transmissions in both four- and two-stroke motorcycles. It is recommended for Honda®, Kawasaki®, Yamaha®, Suzuki®, BMW®, Husqvarna®, Victory® and other motorcycles where 10W-40 or 20W-40 engine oils or SAE 80W/90, GL-1 gear oils are used. Not recommended where an API GL-4 or GL-5 gear oil is required.

### COMPATIBILITY

AMSOIL 10W-40 Synthetic Motorcycle Oil is compatible with conventional and synthetic motor oils; however, mixing oils may shorten the oil's life expectancy and reduce its performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are **not recommended** for use with AMSOIL motorcycle oil.

### SERVICE LIFE

**For on-road use in engines and transmissions**, change AMSOIL 10W-40 Synthetic Motorcycle Oil and AMSOIL Ea® Motorcycle Oil Filter at twice the motorcycle manufacturer-recommended change interval or one year, whichever comes first. Change other brand oil filters at standard intervals.

**For off-road use in engines and transmissions**, change AMSOIL 10W-40 Synthetic Motorcycle Oil at the standard motorcycle manufacturer-recommended change interval.

**For racing or in engines modified from the original factory design**, no change interval recommendation is made; oil changes are at the owner's discretion.



AMSOIL products and Dealership information are available from your local AMSOIL Dealer