



*The First in Synthetics*®

# 100% Synthetic 10W-30 Motor Oil

Formulated for Superior Automotive Engine Lubrication

## PRODUCT DESCRIPTION

AMSOIL 100% Synthetic 10W-30 Motor Oil (ATM) delivers extraordinary lubrication in all types of automotive gasoline engines. By combining the industry-premier synthetic technology with AMSOIL premium additives, AMSOIL 10W-30 exceeds the higher performance demands of modern engines. It withstands the stress of higher horsepower, higher heat and complicated emission control systems. AMSOIL Synthetic 10W-30 Motor Oil consistently outperforms competitive conventional and synthetic motor oils. It delivers long-lasting performance and protection.

AMSOIL, the leader in automotive 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 vehicle.

### Extends Drain Intervals

AMSOIL Synthetic 10W-30 Motor Oil can extend drain intervals far beyond those recommended for conventional oils. Its unique synthetic formulation and long-drain additive system are very stable, resisting oxidation and neutralizing acids. AMSOIL Synthetic 10W-30 delivers the best possible engine protection, cleanliness and performance over extended drain intervals, reducing vehicle maintenance and waste oil disposal costs.

### Maximizes Fuel Economy

AMSOIL Synthetic 10W-30 Motor Oil is designed to maximize energy efficiency for improved fuel economy. Unlike conventional oils, its uniform molecular structure helps it flow more freely and reduce friction between metal surfaces. Anti-friction additives are included to further improve energy efficiency.



### Reduces Engine Wear

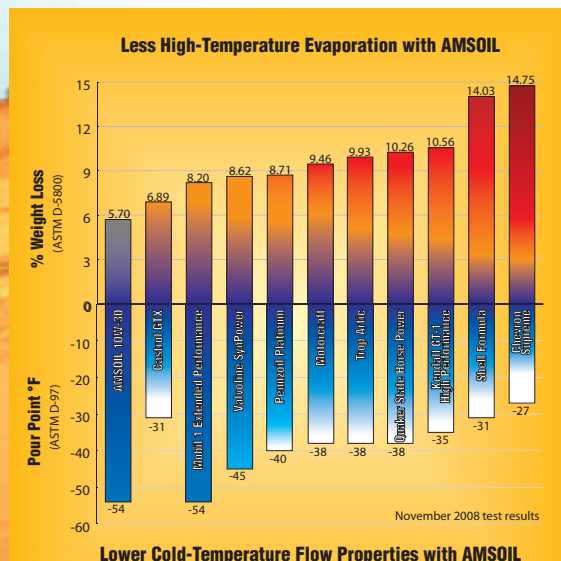
AMSOIL Synthetic 10W-30 Motor Oil provides outstanding anti-wear protection. It has excellent viscosity film strength to separate metal surfaces and robust anti-wear additives to further reduce wear in metal-to-metal contact regions for improved engine life.

### Reduces Oil Consumption and Emissions

Evaporation (volatility) occurs when oil gets hot, causing high oil consumption and emissions. AMSOIL Synthetic 10W-30 Motor Oil has the lowest evaporation rate of the oils tested, making it the best at controlling evaporation-related oil consumption and emissions (see chart).

### Excels in Extreme Temperatures

AMSOIL Synthetic 10W-30 Motor Oil resists thermal (heat) breakdown better than conventional oils. It is heavily fortified with detergent and dispersant additives to prevent sludge deposits and keep engines clean. Unlike conventional oils, AMSOIL ATM contains no wax. It stays fluid down to -48°C (-54°F) for improved cold-temperature oil flow, reduced bearing wear and easier starting (see chart).



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL 100% Synthetic 10W-30 Motor Oil (ATM)

|  |           |
|--|-----------|
| Kinematic Viscosity @ 100°C, cSt (ASTM D-445)  | 10.8      |
| Kinematic Viscosity @ 40°C, cSt (ASTM D-445)   | 63.3      |
| Viscosity Index (ASTM D-2270)  | 163       |
| CCS Viscosity @ -25°C, cP (ASTM D-5293)  | 4150      |
| Pour Point, °C (°F) (ASTM D-97)  | -48 (-54) |
| Flash Point, °C (°F) (ASTM D-92)   | 226 (439) |
| Fire Point, °C (°F) (ASTM D-92)  | 246 (475) |
| Four-Ball Wear Test<br>(ASTM D-4172B @ 40 kgf, 75°C, 1200 rpm, 1 hr), Scar, mm                             | 0.35      |
| Noack Volatility, % weight loss (g/100g) (ASTM D-5800)   | 5.7       |
| High-Temperature/High-Shear Viscosity<br>(ASTM D-4683 @ 150°C, 1.0 X 10 <sup>6</sup> S <sup>-1</sup> ), cP | 3.2       |
| Total Base Number  | 12.2      |

### APPLICATIONS

AMSOIL Synthetic 10W-30 Motor Oil is recommended for use in gasoline engines and other applications requiring any of the listed worldwide specifications:

- API SM/CF, SL, SJ ...
- ILSAC GF-4, 3 ...
- ACEA A1/B1, A5/B5
- JASO VTW
- GM 4718M, 6094M
- Ford WSS-M2C205-A
- Daimler Chrysler MS-6395N
- VW 503.00

### MIXING AMSOIL

AMSOIL Synthetic 10W-30 Motor Oil is compatible with conventional and synthetic motor oils. Mixing AMSOIL motor oils with other oils, however, will shorten the oil life expectancy and reduce the performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are not recommended for use with AMSOIL motor oils.

### SERVICE LIFE

AMSOIL Synthetic 10W-30 Motor Oil is recommended for extended drain intervals in unmodified<sup>(1)</sup>, mechanically-sound<sup>(2)</sup> gasoline-fueled vehicles as follows:

- *Normal Service*<sup>(3)</sup> – Up to 25,000 miles or one year, whichever comes first.
- *Severe Service*<sup>(4)</sup> – Up to 15,000 miles or one year, whichever comes first.
- Replace AMSOIL Ea™ Full-Flow Oil Filter at the time of oil change up to 25,000 miles or one year service life, whichever comes first (other brands at standard OEM\* intervals).
- In all other applications, extend the oil change interval according to oil analysis or follow the OEM\* drain interval.

\*OEM – Original Equipment Manufacturer

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

- (1) Engines operating under modified conditions are excluded from extended drain recommendations. Examples include the use of performance computer chips; non-OEM approved exhaust, fuel or air induction systems; and the use of fuels other than those recommended for normal operation by the manufacturers.
- (2) Engines are in good working condition and within the factory design settings. Mechanically-sound engines, for example, do not leak or consume excessive amounts of oil, are not worn out, do not overheat, do not have internal or external antifreeze leaks and have properly-working emission control systems. AMSOIL recommends repairing malfunctioning engines prior to the installation of AMSOIL synthetic oils.
- (3) Personal vehicles frequently traveling greater than 10 miles (16 km) at a time and not operating under severe service.
- (4) Turbo/supercharged vehicles, commercial or fleet vehicles, excessive engine idling, use of AMSOIL engine oil in vehicles with more than 100,000 miles without prior regular use of AMSOIL engine oil, daily short-trip driving (less than 10 miles), frequent towing, plowing, hauling or dusty-condition driving.

AMSOIL Ea Full-Flow Oil Filters are designed for extended drain intervals. They stop smaller particles, flow more oil and last longer than regular filters. For best performance, use AMSOIL Ea Full-Flow Oil Filters.

### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at 715-392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.



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