



The First in Synthetics®

# 100% Synthetic 5W-30 Motor Oil

## Formulated for Superior Automotive Engine Lubrication

### PRODUCT DESCRIPTION

AMSOIL 100% Synthetic 5W-30 Motor Oil (ASL) delivers extraordinary lubrication in all types of automotive gasoline engines. By combining the industry premier synthetic technology with AMSOIL premium additives, AMSOIL ASL exceeds the higher performance demands of modern engines. It withstands the stress of higher horsepower, higher heat and complicated emission control systems. AMSOIL Synthetic 5W-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 engine.

### Extends Drain Intervals

AMSOIL Synthetic 5W-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 ASL 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 5W-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 5W-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.

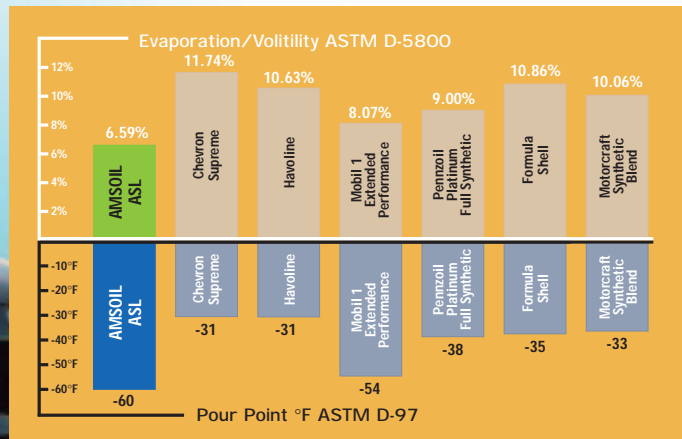
### Reduces Oil Consumption and Emissions

Evaporation (volatility) occurs when oil gets hot, causing high oil consumption and emissions. AMSOIL Synthetic 5W-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 5W-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. And unlike conventional oils, AMSOIL ASL contains no wax. It stays fluid down to -60°F for improved cold temperature oil flow, reduced bearing wear and easier starting (see chart).

### Less High-Temperature Evaporation With AMSOIL



### Lower Cold-Temperature Flow Properties With AMSOIL



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL 100% Synthetic 5W-30 Motor Oil (ASL)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	57.3
Viscosity Index (ASTM D-2270)	178
CCS Viscosity @ -30°C, cP (ASTM D-2602)	5254
Pour Point °C (°F) (ASTM D-97)	-51 (-60)
Flash Point °C (°F) (ASTM D-92)	228 (442)
Four-Ball Wear Test (ASTM D-4172B @ 40 kgf, 75°C, 1200 rpm, 1 hr), Scar, mm	0.35
Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	6.6
High-Temperature/High-Shear Viscosity (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 5W-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 A5/B5  
JASO VTW  
GM 4718M, 6094M  
Ford WSS-M2C929-A  
Daimler Chrysler MS-6395N  
VW 503.00

### MIXING AMSOIL

AMSOIL ASL 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 5W-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.
  - Replace AMSOIL oil filter at 12,500 miles or six months, whichever comes first (other brands at standard OEM\* intervals).
- **Severe Service**<sup>(4)</sup> – Up to 15,000 miles or one year, whichever comes first.
  - Replace AMSOIL oil filter at 15,000 miles or six months, 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

- (1) Where the engine or operating conditions have been modified from the original manufacturers' design, drain oil at the owner's discretion or extend based on oil analysis. Examples include the use of performance computer chips; modified 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 oil or consume excessive amounts, are not worn out, do not overheat, do not have internal or external anti-freeze leaks and have properly working emission control systems. AMSOIL recommends repairing malfunctioning engines prior to the installation of AMSOIL synthetic oils.
- (3) Non-turbo/non-supercharged personal transportation vehicles frequently traveling greater than 10 miles at a time and not operating under severe service.
- (4) Turbo/supercharged vehicles, commercial or fleet vehicles, extensive engine idling, first use and subsequent use of AMSOIL engine oil in vehicles with 100,000 miles or greater, daily short trip driving (less than 10 miles), frequent towing, plowing or hauling heavy loads and frequent driving in dusty conditions.

AMSOIL 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 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 upon request at 715-392-7101 or via the Internet at [www.AMSOIL.com](http://www.AMSOIL.com).

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

