



The First in Synthetics®

# SYNTHETIC 0W-30 MOTOR OIL

## Fuel efficiency and wear protection

Modern passenger car and light truck engines are built for fuel efficiency and power. AMSOIL Synthetic 0W-30 Motor Oil optimizes efficiency and power without the sacrifice in wear protection that comes with many fuel-efficient, low-viscosity oils.

Testing shows AMSOIL Synthetic 0W-30 Motor Oil dramatically outperforms popular conventional and synthetic motor oils of typical viscosities in wear protection (see chart).

### Fuel Efficient Formula

AMSOIL Synthetic 0W-30 Motor Oil efficiently transfers energy from the engine to the drivetrain. Its low coefficient of friction inhibits the energy loss to “drag” common to high viscosity oils.

Motorists seeking the ultimate in fuel efficiency may use AMSOIL Synthetic 0W-30 Motor Oil in place of 5W-30 or 10W-30 motor oils.

### High Temperature Protection

AMSOIL Synthetic 0W-30 Motor Oil protects in high temperatures better than the conventional and synthetic oils tested. Even after extended service in the engine, AMSOIL Synthetic 0W-30 Motor Oil maintains its ability to protect in high temperatures.

### Low Temperature Protection

AMSOIL Synthetic 0W-30 Motor Oil is specially formulated for superior cold temperature engine protection. It retains

excellent fluidity in extremely low temperatures, so it flows quickly and reliably to allow easy starting and immediate lubricating protection.

Motorists seeking cold temperature dependability and protection may use AMSOIL Synthetic 0W-30 Motor Oil in place of 5W-30 or 10W-30 motor oils.

### Heat Stability

AMSOIL Synthetic 0W-30 Motor Oil is highly resistant to volatility. For example, in heat that causes conventional motor oils to lose as much as 25 percent of their mass, AMSOIL Synthetic 0W-30 Motor Oil loses less than 10 percent.

AMSOIL Synthetic 0W-30 Motor Oil’s resistance to volatility keeps oil consumption extremely low and, more importantly, keeps the engine thoroughly lubricated and protected. Its resistance to volatility also helps keep fuel efficiency high and emissions low.

### Clean Engine Formula

AMSOIL Synthetic 0W-30 Motor Oil is durable and resists sludge, varnish and other by-products of high-temperature degradation. With no deposits to foul them, engines stay cleaner longer for top performance and efficiency and maximum service life.

### Shear Stability

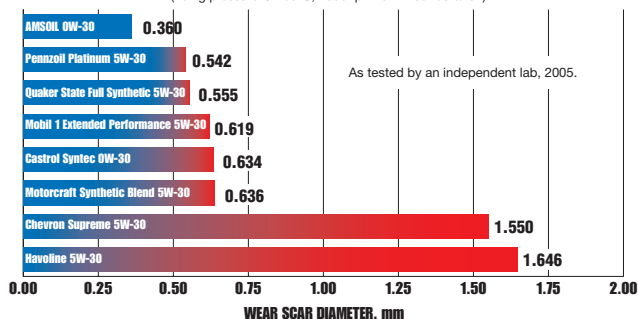
AMSOIL Synthetic 0W-30 Motor Oil is shear stable. With AMSOIL Synthetic 0W-30 Motor Oil’s excellent viscosity retention, the protection that goes into the engine is the protection that stays in the engine, even over an extended course of severe service.



### Comparison Proves AMSOIL Best

Significantly better wear protection

FOUR-BALL WEAR TEST (ASTM D-4172)  
(40 kg pressure @ 150°C, 1800 rpm for 1 hour duration)



As tested by an independent lab, 2005.

The smaller the wear scar, the better the protection.



## TYPICAL PHYSICAL PROPERTIES

### AMSOIL Synthetic 0W-30 Motor Oil

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	10.4
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	56.4
Viscosity Index (ASTM D2270)	177
Cold Crank Simulator Apparent Viscosity @ -35°C, cP (ASTM D5293)	5831 (-35)
Pour Point, °C [°F] (ASTM D92)	-51 [-60]
Flash Point, °C [°F] (ASTM D92)	230 (446)
Fire Point, °C [°F] (ASTM D92)	246 (475)
Noack Volatility (ASTM D5800) 250°C for 1 hour, % weight loss	8.5
High Temperature/High Shear Viscosity cP, X°C, X s <sup>-1</sup> (ASTM D4683)	3.2
Four-Ball Wear Test (ASTM D4172: 40 kgf, 150°C, 1800 rpm, 1 hr) Scar diameter, mm	0.36
Total Base Number	>12.1

### Application

AMSOIL Synthetic 0W-30 Motor Oil meets or exceeds the engine protection requirements of all domestic and foreign gasoline and diesel engines specifying the following: API SM/CF, SL, SJ . . . • ILSAC GF-4, 3 . . .

ACEA A5/B5 • JASO VTW • GM 4718M, 6094M

Ford WSS-M2C-929A • Chrysler MS-6395N • VW 503

### Mixing AMSOIL

AMSOIL Synthetic 0W-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 0W-30 Motor Oil is recommended for extended drain intervals in unmodified(1), mechanically sound(2) gasoline-fueled vehicles as follows:

- Normal Service(3) - Up to 35,000 miles or one year, whichever comes first.
- Severe Service(4) - Up to 17,500 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, 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) 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 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) Personal transportation vehicles frequently traveling greater than 10 miles (16km) at a time and not operating under severe service.

(4) Turbo/supercharged vehicles, commercial or fleet vehicles, excessive engine idling, first and subsequent use of AMSOIL engine oil in vehicles with over 100,000 miles, 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 recommendation 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). Keep out of reach of children. Don't pollute. Return used oil to collection centers.

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

