

SYNTHETIC 0W-30 MOTOR OIL

Meets or exceeds performance requirements of
API SH, SJ, SL, CF • ILSAC GF-2, GF-3
ACEA A-2, A-3, B-3, B-4 • Chrysler MS-6395H
Ford ESE M2C-153G • GM 4718M
US MIL L-46167B • VW 505.00, 501.00
Daimler Chrysler 229.1, 229.3 • JASO VTW Spec.

Fuel efficiency and wear protection

Passenger car and light-truck engines today are built for fuel efficiency and power. AMSOIL Series 2000 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 Series 2000 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 Series 2000 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 Series 2000 Synthetic 0W-30 Motor Oil in place of 5W-30 or 10W-30 motor oils.

High Temperature Protection

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil protects in high temperatures better than the conventional and synthetic oils tested, regardless of viscosity (see chart). Even after extended service in the engine, Series 2000 Synthetic 0W-30 Motor Oil maintains its ability to protect in high temperatures.

Low Temperature Protection

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil is specially formulated for superior cold temperature engine protection. Series 2000 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 Series 2000 Synthetic 0W-30 Motor Oil in place of 5W-30 or 10W-30 motor oils.

Heat Stability

AMSOIL Series 2000 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 Series 2000 Synthetic 0W-30 Motor Oil loses less than ten percent.

AMSOIL Series 2000 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

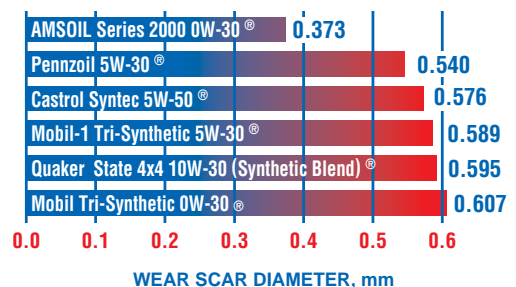
AMSOIL Series 2000 Synthetic 0W-30 Motor Oil remains free of sludge, varnish and other by-products of high temperature degradation. With no deposits to foul them, engines stay cleaner longer for top performance and efficiency and maximum service life.

Shear Stability

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil is highly shear-resistant. With AMSOIL Series 2000 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 D4172)
(40 kg pressure @ 150°C, 1800 rpm for 1 hour duration)



WEAR SCAR DIAMETER, mm
The smaller the wear scar, the better the protection.
As tested by an independent lab, 1999

TYPICAL PHYSICAL PROPERTIES

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	11.2
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	56.9
Viscosity Index (ASTM D2270)	195
Cold Crank Simulator Apparent Viscosity @ -35°C, cP (ASTM D2602)	5520
Borderline Pumping Temperature °C (°F) (ASTM D3829)	>-40 (-40)
Pour Point, °C [°F] (ASTM D92)	-54 [-65]
Flash Point, °C [°F] (ASTM D92)	226 [439]
Fire Point, °C [°F] (ASTM D92)	247 [477]
Noack Volatility (ASTM D5800) 250°C for 1 hour, % weight loss	8.6
High Temperature/High Shear Viscosity cP, X°C, X s ⁻¹ (ASTM D4683)	3.4
Four-Ball Wear Test (ASTM D4172: 40 kgf, 150°C, 1800 rpm, 1 hr) Scar diameter, mm	0.39
Total Base Number	>11.0

Application

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil meets or exceeds the engine protection requirements of all domestic and foreign gasoline and diesel engines specifying the following:

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Mixing AMSOIL

AMSOIL Series 2000 Synthetic 0W-30 Motor Oil may be mixed with petroleum-based oils or other synthetic oils. However, a mixture of AMSOIL Series 2000 Synthetic 0W-30 Motor Oil and another oil may offer a shorter service life than pure AMSOIL Series 2000 Synthetic 0W-30 Motor Oil does.

Service Life

In personal cars and light-duty trucks with non-turbocharged gasoline engines: drain oil at 35,000-mile or one-year intervals, whichever comes first.

In turbocharged gasoline engines, motorcycles, ATVs, marine craft and occasionally used gasoline engines: drain oil at intervals up to three times as long as the intervals recommended by the engine manufacturer or one year, whichever comes first.

In high-performance and racing engines: drain oil according to the findings of used oil analysis.

In light-duty and nonturbocharged diesel engines: drain oil at intervals up to twice as long as those recommended by the engine manufacturer or six months, whichever comes first.

In fleet and industrial gasoline engines: drain oil at intervals up to two times as long as those recommended by the engine manufacturer if the findings of a used oil analysis program support the extended drain intervals.

AMSOIL Oil Filters should be changed at 12,500-mile or six-month intervals (whichever comes first) in gasoline engines. Non-AMSOIL oil filters should be changed at the engine manufacturer's recommended filter change intervals.

Amsoil Dealer Philip Hulings, Dealer 96266, www.synthetic1.com

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

