The First in Synthetics®

***Custom-Blended for Superior Performance in Today's Engines***

# 100% SYNTHETIC 10W-30 MOTOR OIL

• API SL, SJ, CF • ILSAC GF-3, GF-2
• ACEA A2, A3, B2, B3
• Ford WSS-M2C153G
• GM 4718M
• Chrysler MS 10441, MS 6395H, MS 9754
• JASO VTW • VW 502.00, 505.00
• Daimler Chrysler 229.1, 229.3

## PRODUCT DESCRIPTION

AMSOIL 100% Synthetic 10W-30 Motor Oil exceeds the lubrication requirements of all modern automobile engines. It provides tough lubricating protection in the most demanding operating conditions. AMSOIL 10W-30 resists high temperature degradation and flows freely in cold conditions for superior protection against engine wear. AMSOIL 10W-30 also provides maximum power and improved fuel efficiency.

### Resists Vaporization

Conventional motor oils tend to "boil off" in high temperatures. Losing up to 25 percent of their original weight in high temperature service, vaporized oils grow thick and heavy. They circulate poorly, reduce fuel efficiency and contribute to excessive emissions and engine wear. Of course, oil consumption skyrockets as oil boils off.

AMSOIL Synthetic 10W-30 Motor Oil is highly resistant to vaporization, losing only 5.5% of its weight in high temperature service. In fact, AMSOIL Synthetic 10W-30 Motor Oil resists vaporization so well, it surpasses rigorous European standards, set at 13 percent weight loss in high temperature testing. In the engine, AMSOIL Synthetic 10W-30 Motor Oil's superior vaporization resistance keeps fuel economy high, oil circulation efficient, and oil consumption, emissions, and most importantly, engine wear, to a minimum.

### Provides High Shear Stability

The shearing forces generated inside today's smaller, high RPM automobile engines can literally tear apart the molecules of conventional oils. AMSOIL 10W-30, because of its unique synthetic construction, withstands shearing forces. AMSOIL 10W-30 doesn't thin out and lose viscosity like conventional oils do. AMSOIL Synthetic 10W-30 Motor Oil surpasses the North American AAMA, Japanese JASO and European ACEA oil specifications for high temperature/high shear viscosity. AMSOIL 10W-30 delivers long-lasting 10W-30 protection to prevent wear under the hottest and heaviest-loaded conditions.

### Resists Oxidation and Thermal Breakdown

AMSOIL 10W-30 resists oil breakdown from heat, blowby chemicals and oxygen longer than do conventional oils. AMSOIL 10W-30 resists forming varnish deposits and sludge. It doesn't thicken like petroleum oils, but continues to cool and lubricate, providing peak engine performance, power and protection. In addition, the advanced heat transfer capabilities and high lubricity of AMSOIL 10W-30 keeps engines, transmissions and gear boxes running in their optimal temperature range, for top performance and long life.

### Provides Low Temperature Protection

AMSOIL 10W-30 remains fluid at temperatures as low as -54°F (-48°C) so it permits easy engine cranking for fast starts. During sub-zero temperatures, it flows to all parts of the engine in much less time than conventional petroleum oils take, which greatly reduces the rate of wear and increases engine life.

### Resists Deposit Formation

Because AMSOIL 10W-30's synthetic formulation resists oxidation so well, it runs naturally cleaner than conventional oils. AMSOIL 10W-30 has a superior detergent/dispersant additive package that, when tested after tens of thousands of miles of use in the crankcase, still exhibits outstanding deposit control.

### Inhibits Rust and Corrosion

AMSOIL 10W-30 contains powerful rust and corrosion inhibitors to protect iron parts and bearing materials.

### Provides Extended Drain Intervals

Due to its superior synthetic composition and advanced performance additives, AMSOIL 10W-30 performs much longer than do conventional petroleum and other synthetic motor oils. No other major oil manufacturer matches AMSOIL's 25,000-mile or one-year drain interval recommendations.

# TYPICAL TECHNICAL PROPERTIES

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

Kinematic Viscosity @ 100°C, cSt (ASTM D-445) ....11.8

Kinematic Viscosity @ 40°C, cSt (ASTM D-445) .....66.1

Viscosity Index (ASTM D-2270) .....176

CCS Viscosity @ -25°C, cP (ASTM D-2602) .....3097

Borderline Pumping Temperature °C (°F) .....<-40 (-40) (ASTM D-3829)

Pour Point °C (°F) (ASTM D-97) .....-48 (-54)

Flash Point °C (°F) (ASTM D-92) .....230 (446)

Four Ball Wear Test (ASTM D-4172 B: 40kg, 75°C 1,200 rpm, 1 hr) Scar, mm .....0.35

Noack Volatility, % weight loss (g/100g) ASTM D-5800 .....5.5

High Temperature/High Shear Viscosity cP, 150°C, 1.0 x $10^6$ $s.^{-1}$ (ASTM D-4683) .....>3.5

Total Base Number .....>12.2

## APPLICATION

AMSOIL 10W-30 Synthetic 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 100% Synthetic 10W-30 Motor Oil is compatible with conventional petroleum oils; however, mixing AMSOIL 10W-30 with a conventional oil will shorten the drain period of AMSOIL 10W-30. Engine oil additives or after-market products are not recommended for use with AMSOIL 10W-30.

## SERVICE LIFE

Personal passenger vehicles with gasoline engines: drain oil at 25,000-mile or one-year intervals, whichever comes first.

Turbocharged gasoline engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer or at six-month intervals, whichever comes first.

High performance and racing engines: drain oil at engine manufacturer's recommended drain intervals.

Light-duty and nonturbocharged diesel engines: drain oil at intervals up to twice as long as engine manufacturer's recommended drain intervals when used oil analysis supports these longer drain intervals or at six-month intervals.

Heavy-duty and turbocharged diesel engines: this oil is not recommended for use in this application.

Motorcycles, ATVs, etc.: use engine manufacturer's recommended drain interval.

Marine craft and occasionally used gasoline engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer or at one-year intervals, whichever comes first.

Gasoline fleet vehicles and industrial engines: drain oil at intervals up to three times the engine manufacturer's recommended drain intervals or at six-month intervals, whichever comes first.

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