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DATA SHEET

100% Synthetic Small-Engine Oil

COMMERCIAL-GRADE



Compared to liquid-cooled automotive engines, small engines frequently run hotter; operate under constant load; suffer from neglected maintenance; and are exposed to dirt, rain, snow and other damaging contaminants. Simply put, they're tough on oil. Yet many small-engine oils are simply relabeled automotive oils that are formulated for fuel economy rather than durability.

AMSOIL Synthetic Small-Engine Oil is specifically engineered to improve small-engine reliability, ensuring your engines are protected even during periods of extended use and deferred maintenance. It's built to solve common problems that plague small engines, including wear, power loss, oil consumption, harmful carbon deposits and stuck rings and valves. It helps landscapers, contractors and other professionals save money and get more work done.

- **Protects** up to 200 hours.
- **Helps** extend engine life.
- **Inhibits** rust and corrosion.

Excellent Wear Protection

AMSOIL Synthetic Small-Engine Oil is a shear-stable, high-film-strength formulation fortified with anti-wear additives. It does not thin out due to mechanical shear, ensuring a thick, durable lubricating film that protects against metal-to-metal contact.

Reduces Oil Consumption

In lab testing, AMSOIL 10W-30 Synthetic Small-Engine Oil reduced oil consumption 61% compared to three leading 10W-30/SAE 30 motor oils.[1] Its heat-resistant synthetic base oils provide low volatility, excellent viscosity stability and strong oxidation resistance. Your engines will run dependably in the harshest conditions and run longer between top-offs, providing peace of mind that they won't fail due to oil starvation.

Formulated for Power

Engine power is reduced by wear, carbon deposits, valve sticking and piston-ring sticking. AMSOIL Synthetic Small-Engine Oil prevents ring and valve sticking and helps prevent carbon deposit formation so engines produce maximum power throughout their service lives, helping you get more work done.

Extreme-Temperature Performance

AMSOIL Synthetic Small-Engine Oil's saturated molecular structure and potent antioxidant additives provide outstanding resistance to extreme heat. Its powerful detergent additives fight carbon, varnish and sludge to maximize engine life. In extreme cold, the oil's naturally high viscosity index and lack of paraffins (waxes) ensure it remains fluid and flows quickly, providing easier cold-weather starts and fast startup lubrication for reduced wear.

Reduces Deposits & Preserves Power



The piston and rings are virtually free of deposits and wear after 500 hours of severe-service testing in a Kawasaki* FX 730 V engine.

[1]Based on 125-hour lab tests of small engines using AMSOIL 10W-30 Synthetic Small-Engine Oil and three leading 10W-30/SAE 30 motor oils.

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TYPICAL TECHNICAL PROPERTIES
AMSOIL Synthetic Small-Engine Oil

	5W-30 (AES)	10W-30 (ASE)	10W-40 (ASF)	15W-50 (SEF)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	10.8	10.3	14.5	17.8
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	60.4	66.8	96.6	128.9
Viscosity Index (ASTM D2270)	171	141	156	153
CCS Viscosity, cP (ASTM D5293)	4355 (-30)	5968 (-25)	6057 (-25)	5128 (-20)
Pour Point °C (°F) (ASTM D97)	-44 (-47)	-40 (-40)	-39 (-38)	-36 (-33)
Flash Point °C (°F) (ASTM D92)	238 (460)	246 (475)	232 (450)	234 (453)
Fire Point °C (°F) (ASTM D92)	246 (475)	264 (507)	252 (486)	262 (504)
Four-Ball Wear Test (ASTM D4172B @ 40 kg, 75°C, 1200 rpm, 1 hr), Scar, mm	0.47	0.45	0.45	0.42
Noack Volatility, % weight loss (ASTM D5800)	7.9	4.0	3.7	3.2
High-Temperature/High-Shear Viscosity (ASTM D4683 @ 150°C, 1.0 X 10^6 $s.^{-1}$), cP	3.3	3.3	4.4	4.9
Total Base Number	8.5	8.5	8.5	11.6

APPLICATIONS
AMSOIL Synthetic Small-Engine Oil can be used in gasoline engines, off-road diesel engines and certain transmissions for increased convenience. It contains no friction modifiers and meets JASO wet-clutch standards to help prevent misapplication.

Use the appropriate viscosity of AMSOIL Synthetic Small-Engine Oil in applications that require any of the following specifications:

- API SL, SJ, SH, SG... (Gasoline)
- API CD, CF (Diesel)
- JASO MA/MA2 (Wet Clutch)

Use **5W-30 Synthetic Small-Engine Oil** in snowblowers, generators, power washers and other similar equipment that requires SAE 30 or 5W-30 motor oil, including those made by Briggs & Stratton,* Honda,* Kohler,* Champion,* Generac,* Toro,* Ariens,* Troy Bilt,* John Deere,* MTD* and Husqvarna.*

Use **10W-30 Synthetic Small-Engine Oil** in zero-turn, riding, stand-on and push mowers, generators, power washers and other similar equipment that requires SAE 30 or 10W-30 motor oil, including those made by Briggs & Stratton, Honda, Kubota,* Kawasaki,* Kohler, Tecumseh,* Robin,* Onan,* Wisconsin,* Powertrain,* Yanmar,* Linamar* and Vanguard.*

Use **10W-40 Synthetic Small-Engine Oil** in zero-turn, riding, stand-on and push mowers, generators, power washers and other similar equipment that requires SAE 10W-40 or 15W-40 motor oil, including those made by Kubota, Kawasaki, Robin, Onan, Linamar and Vanguard.

Use **15W-50 Synthetic Small-Engine Oil** in zero-turn, riding, stand-on and push mowers, generators, power washers and other similar equipment that requires SAE 50, 10W-50 or 15W-50 motor oil.

COMPATIBILITY
AMSOIL Synthetic Small-Engine Oil is compatible with other synthetic and conventional motor oils. However, adding other oils will shorten the life expectancy of AMSOIL motor oils and reduce performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are **not recommended** for use with AMSOIL Synthetic Small-Engine Oil.

SERVICE LIFE
AMSOIL Synthetic Small-Engine Oil is a long-life formulation that has repeatedly demonstrated its ability to safely exceed original equipment manufacturer (OEM) drain intervals in the toughest conditions. Extensive severe-service testing proves its ability to provide service life of up to 200 hours or one year, whichever comes first. It provides an extra measure of protection when equipment goes longer between oil changes than the OEM recommendation.

WARRANTY SECURE
AMSOIL Synthetic Small-Engine Oil is a high-performance replacement for vehicle manufacturer-branded products and backed by the AMSOIL Limited Warranty. It is also Warranty Secure, keeping your factory warranty intact. For details, visit AMSOIL.com/warrantysecure.

HEALTH & SAFETY
This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS) available at AMSOIL.com or upon request at (715) 392-7101. Recycle used oil and bottle. **Keep Out of Reach of Children.**

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

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