



The First in Synthetics®

Formula 4-Stroke® 10W-30/SAE 30 Synthetic Small Engine Oil (ASE)

**Commercial-Grade Synthetic Oil for
Compact Gasoline and Diesel Engines Operating
Under Adverse Conditions**

PRODUCT DESCRIPTION

AMSOIL Formula 4-Stroke® Small Engine Oil (ASE) is a robust formulation designed for hot-temperature, severe-service operation of small engines where routine maintenance is often difficult or infrequent. It is formulated with premium synthetic base oils that exceed both 10W-30 multi-grade and SAE 30 straight-grade viscosity requirements. Unlike conventional SAE 30 motor oils, AMSOIL Small Engine Oil has a naturally high viscosity index and does not contain paraffin (wax). It has a -38°F pour point and qualifies for SAE 10W, making it an "all-season," multi-grade lubricant with a wide operating temperature range. As an SAE 30 weight motor oil, AMSOIL Small Engine Oil provides outstanding protection for hot-operating engines. Formula 4-Stroke Small Engine Oil is a commercial-grade lubricant that helps improve productivity and reduce maintenance costs through superior engine protection.

Resists Heat and Reduces Oil Consumption

AMSOIL engineered Formula 4-Stroke Small Engine Oil to withstand the high temperatures of hard-working engines. It effectively resists oxidation and oil

vaporization to control oil thickening and reduce oil consumption. AMSOIL Small Engine Oil lasts longer in service than conventional oils and keeps engines clean for peak operating efficiency.

Excellent for Transmission Systems

AMSOIL Formula 4-Stroke Small Engine Oil is a shear-stable formulation that contains no friction modifiers. It will not break down during rigorous mechanical activity, making it ideal for hydraulic or hydrostatic systems and chaincases. It is wet-clutch compatible and designed to prevent clutch slippage in commercial or recreational transmissions. AMSOIL Formula 4-Stroke Small Engine Oil protects gears and bearings during high-demand, commercial-duty service.

Superior Protection

AMSOIL Formula 4-Stroke Small Engine Oil is formulated with high levels of premium anti-wear and detergent additive technology. It provides severe-service protection of pistons, bearings and gears and effectively neutralizes acids from combustion by-products prone to small engines. Anti-rust additives further protect equipment during storage or infrequent use.



TYPICAL TECHNICAL PROPERTIES

Formula 4-Stroke® 10W-30/SAE 30 Synthetic Small Engine Oil (ASE)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	67.0
Viscosity Index (ASTM D-2270)	146
Pour Point °C (°F) (ASTM D-97)	-39 (-38)
Flash Point °C (°F) (ASTM D-92)	236 (457)
Fire Point °C (°F) (ASTM D-92)	256 (493)
Four-Ball Wear Test (ASTM D-4172B @ 40 kg, 75°C, 1200 rpm, 1 hr), Scar, mm	0.40
Noack Volatility, % weight loss (ASTM D-5800)	4.1
High-Temperature/High-Shear Viscosity (ASTM D-4683 @ 150°C, 1.0 X 10 ⁶ s.-1), cP	3.25
Total Base Number	8.4

APPLICATIONS

AMSOIL Formula 4-Stroke® Synthetic Small Engine Oil is recommended for use wherever SAE 10W-30 or SAE 30 oil is specified in gasoline or diesel engines, transmissions, hydraulics and chaincases that require the following:

- API SL, SJ, SH, SG... (Gasoline)
- API CG-4, CD, CF (Diesel)
- JASO MA/MA2, ISO-L-EMA2 (Wet-Clutch)

Engine manufacturers include - Briggs & Stratton, Kohler, Honda, Tecumseh, Robin, Kawasaki, Onan, Kubota, Yanmar, Wisconsin, Power Train, Vanguard and Linamar.

Equipment brands include - Toro, Ariens, Sears Craftsman, John Deere, MTD, Bolens, Dixie Chopper, Yard-Man, Coleman, Murry, Troy-Bilt, Ex-Cell Generac, Snapper, Simplicity, Ingersoll, Wheel Horse, Homelite, Porter-Cable, Devilbass, Poulan, Cambell Hausfeld, Massey Ferguson, Thomas, Bobcat, Kubota, New Holland and Caterpillar.

Applications include - Maintenance equipment, tractors, lawn and garden equipment, generators, compactors, pumps, light towers, log splitters, welders, power washers, cement mixers and trowels, skid-steers, excavators and compressors.

MIXING AMSOIL

AMSOIL Formula 4-Stroke Synthetic Small Engine 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.

Aftermarket oil additives are not recommended for use with AMSOIL motor oils.

SERVICE LIFE

AMSOIL Formula 4-Stroke Synthetic Small Engine Oil is a long-life formulation that can last longer than conventional petroleum oils. It provides an extra measure of protection when equipment typically goes longer between oil changes than is recommended by the equipment manufacturer. Due to wide variances in operating conditions and maintenance practices, AMSOIL recommends extending drain intervals when monitored by oil analysis or following the equipment manufacturer-established drain intervals.

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 via the Internet at www.amsoil.com or upon request at (715) 392-7101. **KEEP OUT OF REACH OF CHILDREN.** Don't pollute. Return used oil to collection centers.

For AMSOIL warranty information visit www.amsoil.com.

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



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