

## 4 Stroke Powersports

## AMSOIL 5W-30 100% SYNTHETIC SMALL-ENGINE OIL

Product Code: AES

*Protect your small engine with advanced synthetic oil that reduces wear, cuts oil consumption, and ensures reliable year-round performance.*



### Product Description

AMSOIL 5W-30 100% Synthetic Small-Engine Oil delivers commercial-grade protection specifically engineered for the punishing conditions small engines face. It keeps generators, snowblowers, power washers and other equipment running dependably for up to 200 hours or one year between oil changes.

Small engines don't have it easy. Compared to liquid-cooled automotive engines, they run hotter, operate under constant or near-constant load, and often go far too long between oil changes. Dirt, rain, snow and other contaminants compound the problem. Despite all of this, many so-called small-engine oils are simply relabeled automotive formulations designed around fuel economy rather than durability. That mismatch leads to accelerated wear, carbon buildup, stuck rings and premature power loss.

#### EXCELLENT WEAR PROTECTION

AMSOIL 5W-30 Synthetic Small-Engine Oil uses a shear-stable, high-film-strength formulation fortified with anti-wear additives. It does not thin out under mechanical stress the way many conventional and lower-quality synthetic oils do. In Four-Ball Wear Testing per ASTM D4172B, the 5W-30 formulation produced a wear scar of just 0.47 mm. That consistent film strength translates directly to less metal-to-metal contact in critical areas like piston rings, cylinder walls and valve trains, especially during cold starts on a Honda generator or a Briggs & Stratton snowblower when oil hasn't fully circulated yet.

#### REDUCES OIL CONSUMPTION BY 61%

Oil consumption is one of the most common complaints with small engines. Low oil levels lead to oil starvation, overheating and catastrophic failure. In 125-hour lab tests, AMSOIL 10W-30 Synthetic Small-Engine Oil reduced oil consumption 61% compared to three leading 10W-30/SAE 30 motor oils. The 5W-30 formulation shares the same heat-resistant synthetic base oil technology, with a Noack Volatility of just 7.9% weight loss per ASTM D5800. Lower volatility means less oil burns off as vapor, so your equipment runs longer between top-offs. If you run a Generac or Champion standby generator during extended power outages, that reduced consumption provides real peace of mind.

#### FORMULATED TO PRESERVE POWER

Carbon deposits, ring sticking and valve sticking all rob small engines of compression and power output over time. AMSOIL Synthetic Small-Engine Oil's potent detergent additives fight carbon, varnish and sludge formation, keeping pistons and rings clean. Severe-service testing in a Kawasaki FX 730 V engine showed pistons and rings virtually free of deposits and wear after 500 hours. Clean rings maintain proper seal against the cylinder wall, preserving compression and helping engines produce maximum power throughout their service life.

## EXTREME-TEMPERATURE PERFORMANCE

The 5W-30 viscosity grade flows readily in cold weather, with a pour point of -44 degC (-47 degF) and a Cold Cranking Simulator viscosity of 4,355 cP at -30 degC. That means easier cold-weather starts and faster oil circulation on a snowblower in January or a generator during a winter storm. On the other end of the spectrum, a flash point of 238 degC (460 degF) and a high viscosity index of 171 confirm strong thermal stability under sustained high-temperature operation. The saturated molecular structure of the synthetic base oils resists oxidation and breakdown far better than conventional oils.

## SPECIFICATIONS AND COMPATIBILITY

AMSOIL 5W-30 Synthetic Small-Engine Oil meets API SL, SJ, SH and SG specifications for gasoline engines, API CD and CF for off-road diesel engines, and JASO MA/MA2 wet-clutch standards. It contains no friction modifiers, which helps prevent misapplication in equipment with wet clutches. Use it in applications calling for SAE 30 or 5W-30 motor oil, including equipment made by Briggs & Stratton, Honda, Kohler, Champion, Generac, Toro, Ariens, Troy-Bilt, John Deere, MTD and Husqvarna. It is compatible with other synthetic and conventional motor oils, though mixing oils will shorten the extended drain interval and reduce performance benefits. Aftermarket oil additives are not recommended.

## SERVICE LIFE

AMSOIL 5W-30 Synthetic Small-Engine Oil provides service life of up to 200 hours or one year, whichever comes first. It also provides an extra measure of protection when equipment goes longer between oil changes than the OEM recommendation. The formulation is Warranty Secure, keeping factory warranties intact.

## Technical Specifications

Property	5W-30 (AES)	Test Method
Kinematic Viscosity @ 100 degC, cSt	10.8	ASTM D445
Kinematic Viscosity @ 40 degC, cSt	60.4	ASTM D445
Viscosity Index	171	ASTM D2270
CCS Viscosity, cP (@ -30 degC)	4,355	ASTM D5293
Pour Point, degC ( degF)	-44 (-47)	ASTM D97
Flash Point, degC ( degF)	238 (460)	ASTM D92
Fire Point, degC ( degF)	246 (475)	ASTM D92
Four-Ball Wear Test, Scar (mm)	0.47	ASTM D4172B (40 kg, 75 degC, 1200 rpm, 1 hr)
Noack Volatility, % weight loss	7.9	ASTM D5800
HTHS Viscosity, cP (@ 150 degC)	3.3	ASTM D4683 (1.0 x 106 s-1)
Total Base Number	8.5	--

## Frequently Asked Questions

### Q1: What equipment is AMSOIL 5W-30 100% Synthetic Small-Engine Oil designed for?

AMSOIL 5W-30 100% Synthetic Small-Engine Oil (AESQT) is specifically designed for small-engine equipment and delivers commercial-grade protection. Its application categories span a wide range including lawn mowers, generators, ATVs, UTVs, snowmobiles, marine outboard engines, PWCs, and agricultural equipment. Verified users report running it successfully in Honda generators, multiple mowers, and off-grid power equipment that operates for extended hours.

### Q2: How does AMSOIL 5W-30 small-engine oil protect against wear in harsh conditions?

AMSOIL 5W-30 100% Synthetic Small-Engine Oil features a shear-stable, high-film-strength formulation fortified with anti-wear additives. Unlike conventional oils, it does not thin out due to mechanical shear, ensuring a thick lubricating film is maintained for maximum wear protection. Its specialized chemistry forms a durable barrier that protects against metal-to-metal contact, while reducing piston-ring and cylinder wear to preserve maximum engine compression and power output.

**Q3: What are the technical specifications and service life of AMSOIL 5W-30 Synthetic Small-Engine Oil?**

AMSOIL 5W-30 100% Synthetic Small-Engine Oil offers a service life of up to 200 hours. It is formulated with heat-resistant synthetic base oils that provide low volatility, excellent viscosity stability, and strong oxidation resistance. The oil is rust-inhibited and engineered to prevent ring and valve sticking while helping eliminate carbon deposits. A full product data sheet and data bulletin are available from AMSOIL for detailed technical specifications.

**Q4: How does AMSOIL 5W-30 small-engine oil compare to conventional 10W-30 and SAE 30 motor oils?**

In lab testing, AMSOIL reduced oil consumption by 61% compared to three leading 10W-30/SAE 30 motor oils, based on 125-hour small-engine lab tests. Its 100% synthetic formulation outperforms conventional oils by resisting thinning from mechanical shear, providing superior heat resistance and oxidation stability. This means engines run longer between top-offs and are far less likely to fail from oil starvation compared to when running on conventional small-engine oils.

**Q5: How long can I run AMSOIL 5W-30 Synthetic Small-Engine Oil before changing it?**

AMSOIL 5W-30 100% Synthetic Small-Engine Oil provides protection for up to 200 hours of service life. Its heat-resistant synthetic base oils resist breakdown from high temperatures and oxidation, which helps engines run dependably in the harshest conditions throughout the entire service interval. The low-volatility formulation also reduces the need for frequent top-offs between oil changes, helping cut overall maintenance costs.

**Q6: Is AMSOIL 5W-30 Synthetic Small-Engine Oil safe for generators and other air-cooled engines?**

Yes, AMSOIL 5W-30 100% Synthetic Small-Engine Oil is designed for maximum equipment dependability in small engines, including generators and other air-cooled applications. Its rust-inhibited formula protects engines that may sit idle between uses, while the heat-resistant synthetic base oils handle the elevated operating temperatures common in air-cooled designs. Verified users confirm reliable performance in Honda generators and similar equipment run for extended hours under demanding conditions.

---

**Available Product Codes**

Product Code	Package Size	Unit of Measure
AESQT-EA	Quart Bottle	Each
AESQT-CA	Quart Bottle	Case of 12

[ORDER ONLINE](#)