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DATA SHEET

100% Synthetic European Motor Oil

Specially Formulated for European Gasoline and Diesel Engines

European performance and styling define a culture of exceptional engineering. AMSOIL matches that devotion to precision with lubricants specially designed for the unique demands of gasoline, diesel and hybrid European vehicles.

Our exclusive European formula features a precise blend of advanced synthetic base oils and premium additives that delivers exceptional engine protection without harming emissions systems.

Complete Coverage

AMSOIL European Motor Oil meets and often exceeds strict European manufacturer specifications. Its shear-stable synthetic base oils and high-quality anti-wear additives provide outstanding protection in high-temperature conditions and deliver dependable performance throughout the long drain intervals recommended by European manufacturers.

Emissions System Protection

AMSOIL European Motor Oil features precisely balanced formulations that consider the needs of modern exhaust treatment devices. Protecting sensitive emissions systems depends on using the optimal blend of SAPS (sulfated ash, phosphorus and sulfur). AMSOIL European Motor Oil is carefully crafted in eight varieties to ensure proper emissions system function.

Superior Engine Cleanliness

The excellent oxidation stability, heat resistance and detergency properties of AMSOIL European Motor Oil help keep engines clean. It is specifically designed to prevent sludge and varnish deposits, reduce oil consumption, extend engine life and provide maximum performance.

Excellent For Turbochargers

AMSOIL European Motor Oil has a robust composition that shields engines from the high temperatures produced by turbochargers. Its thermally stable oil formulation resists deposit formation and cools turbochargers. Its low pour point protects turbochargers against oil starvation in subzero temperatures and ensures a rapid return to appropriate oil pressure at startup.



- **Engineered** to meet European manufacturers' performance requirements
- **Excellent** protection for gasoline, diesel and hybrid engines
- **Fights** sludge for superior engine cleanliness

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TYPICAL TECHNICAL PROPERTIES
AMSOIL 100% Synthetic European Motor Oil

	EFO	EFM	AEL	AFL	AFE	EZT	EOT	ETS
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	13.7	14.6	12.2	14.4	8.1	8.2	12.3	24.2
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	78.5	88.5	69.6	86.6	43	42.2	66.7	165.7
Viscosity Index (ASTM D2270)	181	173	175	173	163	174	185	178
CCS Viscosity cP (ASTM D5293)	5796 (-35)	6120 (-30)	5478 (-30)	5628 (-30)	6081 (-35)	5501 (-35)	5879 (-35)	5583 (-25)
Pour Point °C (°F) (ASTM D97)	-51 (-59.8)	-39 (-38.2)	-46 (-50.8)	-39 (-38.2)	-46 (-50.8)	-44 (-47.2)	-49 (-56.2)	-33 (-27.4)
Flash Point °C (°F) (ASTM D92)	232 (449.6)	222 (431.6)	222 (431.6)	226 (438.8)	226 (438.8)	236 (456.8)	228 (442.4)	252 (485.6)
Fire Point °C (°F) (ASTM D92	246 (474.8)	236 (456.8)	236 (456.8)	238 (460.4)	240 (464)	246 (474.8)	238 (460.4)	271 (519.8)
Noack Volatility, % weight loss (ASTM D5800)	8.6%	8.1%	7.4%	7.2%	11%	8.9%	8.6%	7.1%
High-Temperature/High-Shear Viscosity cP (ASTM D5481)	3.9	4.0	3.6	4.1	2.7	2.7	3.5	6.6
Total Base Number	10.1	10.1	8.4	8	7.9	8.8	8.4	10.2

APPLICATIONS

Use in gasoline or diesel vehicles that require any of the following specifications:

0W-40 (EFO): API SN, SM…; ACEA A3/B3, A3/B4; BMW LL-01; MB 229.1, 229.3, 229.5; Porsche A40; Renault 0700, 0710; VW 502.00, 505.00

5W-40 (EFM): API SN, SM…; ACEA A3/B3, A3/B4; BMW LL-01 MB-Approval 229.5; Porsche A40; VW 502.00, 505.00; GM LL-B-025; Renault 0700, 0710

5W-30 (AEL): API SN, SM…; ACEA C3; BMW LL-04; Porsche C30; VW 504.00, 507.00; GM dexos* 2; Chrysler MS-11106; MB 229.51

5W-40 (AFL): API SN, SM, CF...; ACEA C3; MB 229.51; Porsche A40; Chrysler MS-10850; GM dexos 2; VW 502.00, 505.01; Ford WSS-M2C917-A; Renault 0700, 0710; BMW Longlife-04

0W-20 (AFE): API SN-PLUS (Resource Conserving), SN, SM...; ILSAC GF-5; ACEA C5, A1/B1; BMW LL-17FE+; MB 229.71; Ford WSS-M2C947-B1; Opel/Vauxhall OV0401547; Fiat 9.55535-GSX; Chrysler MS-12145; Volvo VCC RBS0-2AE

0W-20 (EZT): API SN-PLUS, SN...; ACEA C5; VW 508.00/509.00, TL52577; Porsche C20

0W-30 (EOT): API SP, SN PLUS, SN; ACEA C2, C3; BMW LL-01FE; MB 229.31, 229.51, 229.52; VW/Audi 504.00/507.00; Porsche C30

10W-60 (ETS): API SN; ACEA A3/B3, A3/B4

SERVICE LIFE

Recommended for the extended drain intervals established by the vehicle manufacturer. Change oil filter at time of oil change.

COMPATIBILITY

AMSOIL 100% Synthetic European Motor Oil is compatible with other synthetic and conventional motor oils. Mixing AMSOIL motor oil with other oils, however, will shorten the oil's life expectancy and reduce its 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 motor oils.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit AMSOIL.com/warranty.aspx.

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). An SDS is available via the Internet at AMSOIL.com or upon request at 715-392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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