PRODUCT DATA SHEET



Marathon Endurance® Synthetic Blend Motor Oils

Product Description

Marathon Endurance® Synthetic Blend Motor Oil is a premium quality passenger car motor oil (PCMO). Its advanced formulation delivers the ultimate in engine protection, delivering dependable pre-ignition control and outstanding fuel economy. This PCMO meets the latest industry requirements, including those outlined by current ILSAC GF-6 industry standards.

Marathon Endurance [®] Synthetic Blend Motor Oil offers outstanding performance on all critical standards of the GF-6 specification. Its advanced formulation fully meets warranty requirements of newer turbocharged gasoline direct-injection (TGDI) engine types. These products provide premium protection in wear, oxidation control, fuel economy and pre-ignition. They also combat engine sludge, rust, and corrosion and promote piston cleanliness for all engine types, subjected to severe service or low-temperature operation.

Features

- ✓ Reduces risk of timing wear in modern TGDI engines
- ✓ Improved pre-ignition protection that exceeds current API SN PLUS products
- ✓ Protects emissions control system catalysts
- ✓ Excellent fuel economy
- Optimal low-temperature pumpability for cold start protection
- ✓ Combats varnish and sludge to keep engines clean by minimizing deposit formation

Industry and OEM Applications

- API SP, SN Plus
- Resource Conserving, ILSAC GF-6¹
- Fully backwards compatible API SN, SM, SL, SJ
- FORD WSS-M2C960-A1 (5W-20)²
- FORD WSS-M2C961-A1 (5W-30)²
- CHRYSLER MS-6395S
- Toyota, Honda, Nissan, and Hyundai³

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Applications4:

Domestic and imported vehicles with turbocharged gasoline direct-injection (TGDI), conventional gasoline-fueled and flex-fuel passenger cars, light trucks, and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions or anywhere the manufacturer calls for ILSAC GF-6 or API SP-rated oils for engine application.

Technical Data (Typical values)













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SAE Grade		5W-20	5W-30	10W-30	10W-40	20W-50
Resource Conserving, ILSAC GF-6A		Yes	Yes	Yes	No	No
Viscosity @ 100°C, cSt	D445	8.646	10.53	10.55	15	18.28
Viscosity @ 40°C, cSt	D445	53.05	65.57	63.98	99.63	149.5
Viscosity Index	D2770	140	149	154	158	137
Specific Gravity at 60°F	D4052	0.8586	0.8576	0.8597	0.8616	0.8704
Pour Point, °C	D5950	-45	-45	-45	-42	-33
Flash Point, °C	D92	202	202	203	205	205
Color ASTM	D1500	L3.0	L3.0	L3.0	L3.0	L3.0
CCS, cP	D5293	6300 (-30°C)	6400 (-30°C)	4000 (-25°C)	5700 (-25°C)	4300 (-15°C)
Noack Volatility, %w	D5800	11.7	11.2	11.4	9.8	6.5
TBN	D2896	7.1	7	7	7.1	7.1

⁽¹⁾ ILSAC viscosity grades

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

⁽²⁾ Backwards compatible with Ford WSS-M2C945-B1 (5W-20)/ M2C946-B1 (5W-30) and GM6094M/GM4718M (obsolete)

⁽³⁾ Require ILSAC GF-6 approved oils for service fill. Additional unpublished specifications for factory fill and genuine oils (mostly 0W-20)

⁽⁴⁾ Always follow operator's manual for recommended viscosity grade and API service classification Certification Mark "Starburst" and the Service Symbol "Donut" are API's trademarks and cannot be used without proper license