

# PRODUCT DATA SHEET



## Marathon Endurance® Full Synthetic Motor Oils



### Product Description

Marathon Endurance® Full Synthetic Motor Oil is a premium quality passenger car motor oil (PCMO). This product is GM Approved Dexos™ 1 Gen 3 certified for 0W-20 and 5W-30 blends. Formulated with the highest quality synthetic base oils and a premium additive package, it offers the ultimate in engine protection. Even in extreme temperatures, harsh operating conditions, severe service, heavy load operation, or extended drain intervals, Marathon Endurance® Full Synthetic delivers ultimate lubrication. It also meets the most current industry requirements for optimal fuel economy and dependable pre-ignition control, as outlined by current ILSAC GF-6 industry standards.

Marathon Endurance® Full Synthetic Motor Oil offers outstanding performance on all key 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-6<sup>1</sup>
- Fully backwards compatible API SN, SM, SL, SJ
- FORD WSS-M2C961-A1 (5W-30)<sup>2</sup>
- FORD WSS-M2C962-A1 (0W-20)<sup>2</sup>
- CHRYSLER MS-6395S
- Toyota, Honda, Nissan, and Hyundai<sup>3</sup>

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## Marathon Endurance<sup>®</sup> Full Synthetic Motor Oils



### Applications<sup>4</sup>:

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)



SAE Grade		0W-20	5W-20	5W-30	10W-30
Viscosity @ 100°C, cSt	D445	8.088	8.34	11.670	10.59
Viscosity @ 40°C, cSt	D445	42.58	45.38	65.52	65.78
Viscosity Index	D2770	173	162	175	150
Specific Gravity at 60°F	D4052	0.8452	0.8425	0.8467	0.8495
Pour Point, °C	D5950	-42	-45	-39	-45
Flash Point, °C	D92	229	206	231	205
Color ASTM	D1500	L3.0	L3.0	L3.0	L3.0
CCS, cP	D5293	5,619 (-35°C)	3,500 (-30°C)	4,180 (-30°C)	3,700 (-25°C)
Noack Volatility, %w	D5800	10.5	7.5	9.8	4.5
TBN	D2896	7.8	7	8.0	7.1

### Dexos™ 1 Gen 3 Certification applies to 0W-20 and 5W-30 blends

- (1) ILSAC GF-6A: 0W-20, 5W-20, 5W-30 & 10W-30
- (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). Chrysler MS-6395S
- (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

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