



# Full Synthetic Motor Oil



Engine Guard® Full Synthetic is a premium quality, high detergent motor oil. Engine Guard® is specially formulated to provide a high viscosity index, utilizing a select additive package that provides outstanding protection against wear, rust, corrosion, oxidative thickening, acid formation, sludge and varnish deposits. Continuous use of Engine Guard® Full Synthetic motor oil will help increase sludge protection, minimize start-up wear, reduce oil consumption, and reduce the likelihood of low speed pre-ignition. Meet's requirements for all gasoline engines where a full synthetic motor oil carrying an API SP, SN Plus, SN, SM, SL and ILSAC GF-6B specifications are specified.

## Features and Benefits



- ✓ *Enhanced performance benefits at extreme temperatures compared with conventional motor oils*
- ✓ *Outstanding resistance to viscosity and thermal breakdown at high temperatures*
- ✓ *Protects against sludge and varnish formation and rust and bearing corrosion*
- ✓ *Excellent low-temperature pumpability for protection during cold starts*
- ✓ *Formulated to protect turbochargers and emission control system catalysts*
- ✓ *Formulated for use in vehicles operating on ethanol-containing fuels up to E85*
- ✓ *Reduces the occurrence of Low Speed Pre-Ignition (LSPI)*



## Available Package Sizes

## Industry/OEM Specifications and Licenses

Viscosity	Quarts	Bag N' Box	Drums	Totes	Bulk
0W/16	✓	✓			

### EG Full Synthetic Motor Oil

### Typical Properties

Viscosity Grade		
Boron, wt. %	ASTMD5185	0.02
Calcium, wt. %	ASTM D5185	0.099
Cold Cranking Simulator at (°C), cP	ASTM D5293	5463 (-30)
Color	ASTM D1500	3
Flash Point °C	ASTM D92	226
Flash Point °F	ASTM D92	439
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Gravity, °API	ASTM D287	35.44
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	20/0
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.32
Magnesium, wt. %	ASTM D5185	0.059
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Molybdenum, wt. %	ASTM D5185	0.0079
Nitrogen, wt. %	ASTM D4629	0.087
Noack Volatility, % loss	ASTM D6375	14.3
Phosphorus, wt. %	ASTM D5185	0.076
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)
Pumping Viscosity at (°C), cP	ASTM D4684	15,000 (-40)
Shear Stability, Final Viscosity in cSt	ASTM D6278	6.6
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8426
Sulfated Ash, wt. %	ASTM D874	0.9
Sulfur, wt. %	ASTM D4951	0.3
TBN, mgKOH/g	ASTM D2896	7.0
Viscosity @ 100°C cSt	ASTM D445	7.548
Viscosity @ 40°C cSt	ASTM D445	38.76
Viscosity Index	ASTM D2270	167
Zinc, wt. %	ASTM D5185	0.085

### Industry/OEM Approvals

Title	0W/16
API SP	Approved
ILSAC GF-6B	Approved
API SN	Meets Requirements
API SN Plus	Meets Requirements