

CITGO SUPERGARD® FULL SYNTHETIC
MOTOR OILS

Date 09/17

DESCRIPTION: CITGO SUPERGARD Full Synthetic Motor Oils are well-balanced combinations of today's highest quality synthetic base stocks and contain an advanced additive system that meets stringent automotive specifications. They are designed to provide excellent protection in today's high performance gasoline (including turbocharged and supercharged) engines in passenger cars, vans, sport utility vehicles, and light trucks. These synthetic engine oils demonstrate improved performance in today's advanced engine designs, and are available in SAE 0W-16, 0W-20, 5W-20, 5W-30 and 10W-30 viscosity grades.

- QUALITIES:**
- Excellent low-temperature starting and pumpability characteristics
 - High-temperature/high-shear properties well above conventional oils
 - Lower volatility when compared to conventional oils
 - Excellent thermal and oxidation stability
 - Enhanced protection against varnish buildup and sludge formation in critical engine parts for top performance and long engine life
 - Extended engine life due to control of wear and deposit formation
 - Proven not to cause low speed pre-ignition (LSPI).

APPLICATIONS: CITGO SUPERGARD Full Synthetic Motor Oils are recommended for passenger cars, sport utility vehicles and light trucks operating on gasoline. They are also recommended for use in gasoline engines which have been converted to operate on compressed natural gas (CNG), liquified natural gas (LNG), and liquified petroleum gas (LPG-which includes propane and butane). Consult the vehicle owner's manual for proper engine lubricant selection.

CITGO SUPERGARD Full Synthetic Motor Oils meet the performance requirements for the latest gasoline-fueled engine service ILSAC GF-5/Resource Conserving (excludes SAE 0W-16) and API SN and display the API Certification Mark and API Service Symbol. They have also demonstrated benefits in industry accepted fuel economy tests.

CITGO SUPERGARD Full Synthetic SAE 0W-16 Motor Oil is an ultra-low viscosity engine oil and is recommended for Original Equipment Manufacturers (OEM) such as Toyota and Honda where a SAE 0W-16 is specified.

CITGO SUPERGARD Full Synthetic SAE 0W-20 is recommended for Original Equipment Manufacturers (OEM) such as Toyota and Honda where a SAE 0W-20 is specified. CITGO SUPERGARD Full Synthetic SAE 0W-20, under material code 620860001, is an Approved GM dexos1® Gen2 oil.

CITGO SUPERGARD Full Synthetic SAE 5W-20 is Approved GM dexos1® Gen2, and provides excellent performance where Ford WSS-M2C945-A is referenced.

CITGO SUPERGARD Full Synthetic SAE 5W-30 is Approved GM dexos1® Gen2, and provides excellent performance where Ford WSS-M2C946-A is referenced.

CITGO SUPERGARD Full Synthetic SAE 10W-30 provides excellent performance where a SAE 10W-30 engine oil is specified.

NOTE: CITGO SUPERGARD Full Synthetic Motor Oils are not recommended for use in diesel engines. CITGO CITGARD® Motor Oils are recommended for these applications. Consult your owner's manual for proper lubricant selection.

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Date 09/17 - (Continued)

TYPICAL PROPERTIES:

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SAE Grade	0W-16	0W-20	0W-20 (dexos1®)	5W-20	5W-30 (dexos1®)	10W-30
Material Code	620858001	620864001	620860001	620859001	620861001	620863001
Gravity, ASTM D4052, °API	32.3	35.0	35.0	34.5	33.1	34.2
Pounds Per Gallon	7.195	7.08	7.08	7.10	7.16	7.11
Flash Point, ASTM D92, °F (°C), COC	442 (228)	435 (220)	435 (220)	442 (228)	450 (232)	450 (232)
Low Temperature Cranking, ASTM D5293						
Temperature, °F (°C)	-31 (-35)	-31 (-35)	-31 (-35)	-22 (-30)	-22 (-30)	-13 (-25)
Viscosity, cP	5,770	5,330	5,850	5,300	4,320	4,000
Viscosity, ASTM D445,						
cSt at 40°C	37.0	44.4	46.1	52.0	55.8	62.0
cSt at 100°C	7.2	8.4	8.8	8.7	9.8	10.2
Viscosity Index, ASTM D2270	160	169	174	145	163	152
Pour Point, ASTM D97, °F (°C)	-38 (-39)	-49 (-45)	-45 (-49)	-33 (-36)	-27 (-33)	-27 (-33)
Color, ASTM D1500	L3.5	L3.5	L2.5	L3.5	L2.5	L3.5
ILSAC GF-5	—	Yes	Yes	Yes	Yes	Yes
API SN	Yes	Yes	Yes	Yes	Yes	Yes
Licensed GM dexos1®	—	—	Yes	—	Yes	—

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Values shown are typical values only and do not constitute a specification. The information contained herein is subject to change without notice.