



LUBRICANTS

# Product Data Sheet

## GulfTEC<sup>®</sup> Synthetic Motor Oil

### MEETS OEM DEMANDS FOR IMPROVED PERFORMANCE TO COMBAT LOW SPEED PRE-IGNITION (LSPI)

Uniquely formulated with an advanced additive system proven to provide protection against low-speed pre-ignition (LSPI)<sup>1</sup> often occurring in high performance turbocharged gasoline direct-inject engines (TGDI). They are full synthetic, multi-grade automotive lubricants formulated to meet or exceed the warranty requirements of most major manufacturers of gasoline engines. They are suitable for use in four-stroke gasoline engines used in passenger cars, light trucks, SUV's, motorcycles, generators and other equipment. All viscosity grades meet the performance requirements of the latest gasoline-fueled engine service ILSAC GF-6A/Resource Conserving (excludes SAE 0W-40 & 0W-16 viscosity grade) and API SP.

### Features and Benefits

- Ultimate cleaning and wear protection
- Assist in lowering emissions
- Outstanding high temperature protection
- Extended oil drain intervals
- Synthetic base oil for enhanced oxidation stability
- Improved volatility and low temperature properties

### Approvals / Recommended for Use by Nu-Tier Brands:

	0W-16	0W-20	0W-30	0W-40	5W-20	5W-30	10W-30
API SP, SN Plus, SN	X	X	X	X	X	X	X
ILSAC GF-6A / Resource Conserving		X	X		X	X	X
ILSAC GF-6B / Resource Conserving	X						
Ford WSS-M2C960-A1					X		
Ford WSS-M2C961-A1						X	
Ford WSS-M2C962-A1		X					
Ford WSS-M2C963-A1			X				
Chrysler MS-6395		X	X		X	X	X
GM 4718M**			X	X		X	X
GM 6094M**			X	X	X	X	X
Toyota/Honda	X	X	X		X	X	X

\*\*Obsolete

X<sup>2</sup> - ILSAC GF-6B will be defined for 0W-16 viscosity grade oil only.

Always consult your owner's manual for proper lubricant selection.

### Applications

- Vehicles that specify SAE 0W-16 such as Toyota and Honda



1-800-566-4853



East Greenbush, NY



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## Typical Properties

SAE Grade		0W-16	0W-20	0W-30	0W-40	5W-20	5W-30	10W-30
Product Code	Test Method	330208	330212	330215	330218	330210	330211	330213
Kinematic Viscosity, cSt at 40°C	ASTM D-445	36.5	46.0	60.5	73.6	45.8	61.5	65.5
Kinematic Viscosity, cSt at 100°C	ASTM D-445	7.2	8.6	10.8	13.2	8.5	11.0	10.4
Viscosity Index, calculated		162	168	175	181	165	175	147
Cold Cranking @ temp °C, cP	ASTM D-5293	5000 at -35	5000 at -35	5500 at -35	5700 at -35	5200 at -30	5000 at -30	4800 at -25
Total Base Number, mg KOH/g	ASTM D-2896	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Pour Point, °C	ASTM D-97	-48	-42	-45	-45	-40	-40	-36
HTHS Viscosity	ASTM D-4683	2.6	2.6	3.4	3.6	2.8	3.1	3.2
Sulfated Ash, Wt %	ASTM D-874	0.8	0.8	0.8	0.8	0.8	0.9	0.9
Phosphorus, Wt %	ASTM D-4981	0.077	0.077	0.077	0.077	0.077	0.077	0.077
Highest API / ILSAC Performance		SP / GF-6B	SP / GF-6A	SP / GF-6A	API SP	SP / GF-6A	SP / GF-6A	SP / GF-6A

\* Values shown are typical only and do not constitute a specification. Minor variations in product are to be expected in normal manufacturing. Always confirm with the original manufacturer's recommendation for proper equipment operating requirements.

\*X<sup>2</sup> - ILSAC GF-6B will be defined for 0W-16 viscosity grade oil only.

\*1 LSPI is a premature ignition of the air-fuel mixture in the combustion chamber. This low-speed pre-ignition is very violent and causes over pressurization of the combustion chamber that can lead to damage and failure of the piston, rings, valves, and other internal components.

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