



LUBRICANTS

A HOLLYFRONTIER BUSINESS

# TECH DATA

## SUPREME™ SYNTHETIC BLEND

### MULTIGRADE MOTOR OILS

## INTRODUCTION

SUPREME™ SYNTHETIC BLEND Motor Oils are premium advanced motor oils designed to outperform conventional engine oils lubricating the engines of today's gasoline and ethanol (up to E85) fuelled passenger cars, vans, CUVs, SUVs and light duty trucks. With today's high-powered engines, SUPREME SYNTHETIC BLEND Motor Oils can help provide long engine life by lubricating critical parts effectively. They also provide enhanced protection for the latest emission control systems and turbochargers.

SUPREME SYNTHETIC BLEND Motor Oils start with the HT purity process which produces 99.9% pure PURITY™ base oils. In combination with leading-edge additive technology, they deliver exceptional resistance to thermal breakdown, outstanding low temperature fluidity, and excellent engine protection against wear and deposit formation under the most severe driving conditions. Our oils also feature new and advanced formulations to protect gasoline direct injected and turbocharged direct injected engines from accelerated timing-chain wear and harmful damage caused by abnormal combustion events that can sound like engine "knocking".

SUPREME SYNTHETIC BLEND Motor Oils are specially formulated to exceed the latest API Service Classification for gasoline engines, API SP with Resource Conserving, as well the latest ILSAC GF-6A standard.

## FEATURES AND BENEFITS

### Extended Engine Life

- Outstanding protection against wear, rust and corrosion
- Excellent valvetrain and timing-chain wear protection
- Bearing life greatly extended
- Minimizes corrosion due to stop-start driving in cold weather
- Protects against low speed pre-ignition (LSPI)

### Exceptional Resistance to High Temperature Thermal Breakdown

- Cleaner running engines
- Reduces deposits of varnish, sludge and carbon on engine parts
- Protects turbochargers from deposit formation
- Minimizes piston-ring sticking
- Improves lubrication because oil-ways stay clean

### Outstanding Low Temperature Fluidity

- Robust low temperature performance against industry standards that permits easier unaided cold weather starts
- Reduces wear during low temperature start-up and operation

### Reduced Oil Consumption

- Low evaporation loss results in less oil top-up
- Verified seal compatibility to prevent leaks

### Compatible with High Ethanol Fuels (up to E85)

- Protects against engine corrosion
- Prevents water separation

### Protection of Exhaust Emission Control Systems

- Formulated to meet reduced phosphorus and sulphur levels, and to provide reduced phosphorus volatility in order to protect and extend the life of emission control systems

Petro-Canada Lubricants starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



## IMPROVED FUEL ECONOMY PERFORMANCE

SUPREME SYNTHETIC BLEND Motor Oils meet or exceed the ILSAC GF-6A requirements for fuel economy improvement and fuel economy retention, which surpass previous generation ILSAC GF-5 motor oils. They not only provide better initial fuel economy, but are better at maintaining it over the oil drain interval.

## APPLICATIONS

SUPREME SYNTHETIC BLEND Motor Oils are recommended for year-round use in gasoline, gasoline containing ethanol (up to E85), propane and compressed natural gas (CNG) fuelled engines. SUPREME SYNTHETIC BLEND Motor Oils meet or exceed new car warranty requirements for North American, European, and Asian vehicles where ILSAC GF-6A or API SP engine oils are recommended. They are fully back-serviceable to previous ILSAC and API performance ratings including ILSAC GF-5 and API SN, SN PLUS.

SUPREME SYNTHETIC BLEND Motor Oils also meet the following OEM specifications:

Ford WSS-M2C960-A1: 5W-20

Ford WSS-M2C961-A1: 5W-30

Always consult your owner's manual to select the appropriate viscosity grade for your engine.

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	SUPREME SYNTHETIC BLEND	
		5W-20	5W-30
Density, kg/L @ 15° C (60° F)	D4052	0.853	0.854
Colour	D1500	2.5	2.5
Flash Point, COC, °C/°F	D92	226 / 439	231 / 448
Pour Point, °C/°F	D5950	-45 / -49	-42 / -44
Kinematic Viscosity cSt @ 40° C cSt @ 100° C	D445	50.1 8.7	69.3 11.4
Viscosity Index	D2270	152	159
Cold Cranking Viscosity, cP @ °C/°F	D5293	4800 @ -30 / -22	5800 @ -30 / -22
Borderline Pumping Viscosity, cP @ °C/°F	D4684	15000 @ -35 / -31	22000 @ -35 / -31
Volatility (Noack), % loss	D5800	11.3	10.8
Sulphated Ash, % wt.	D874	0.84	0.81
Sulphur, mass %	D4294	0.28	0.28
Phosphorus, mass %	D4951	0.08	0.08
Base Number (BN), mg KOH/g	D2896	7	7
High-Temperature High-Shear (HTHS) Viscosity, cP @ 150°C and 1E+06/s	D4683	2.6	3.1
<ul style="list-style-type: none"> <li>• API Performance Level - Licensed</li> <li>• API Resource Conserving (RC)</li> <li>• ILSAC Standard Approval - Licensed</li> </ul>		SP Yes GF-6A	SP Yes GF-6A

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [lubricants.petro-canada.com](https://lubricants.petro-canada.com)  
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Committed to the disciplined operation of our business.



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