



A HOLLYFRONTIER BUSINESS

# TECH DATA

## SUPREME™ EU-X SYNTHETIC 5W-40

### MULTIGRADE MOTOR OILS

## INTRODUCTION

SUPREME EU-X Synthetic is a high-performance motor oil designed to lubricate gasoline and light duty diesel engines, including direct-injected and turbocharged units.

SUPREME EU-X Synthetic is a top quality “Full SAPS”<sup>\*</sup> passenger car motor oil that delivers excellent performance and protection when lubricating today’s engines. Promoting balanced lubrication, it is specially formulated with a combination of synthetic base oils and advanced additive chemistry to meet the demands of the engine. This premium motor oil is specifically designed to provide outstanding wear protection and deposit control under the most severe driving conditions.

SUPREME EU-X Synthetic delivers resistance to thermal breakdown, excellent low temperature fluidity and advanced engine protection at extreme operating temperatures.

SUPREME EU-X Synthetic meets ACEA A3/B4-16 and is suitable for use in engines which specify API SN. It is also suitable for use in vehicles which specify the following OEM specifications:

- BMW LL-01
- Porsche A40
- MB 229.3 / 229.5
- Renault RN0700 / RN0710
- Opel GM-LL-B-025
- Volkswagen 502 00 / 505 00
- Peugeot PSA B71 2296

## FEATURES AND BENEFITS

### Extended Engine Life

- Superior oil film stability
- Excellent protection against wear
- Superb engine cleanliness promotes robust engine performance

### Resistance to High Temperature Thermal Breakdown

- Cleaner running engines
- Reduced engine sludge and varnish
- Prevents piston-ring sticking
- Minimizes piston and turbocharger deposits

### Excellent Low Temperature Fluidity

- Permits easier unaided cold weather starts
- Reduces wear during low temperature start-up and operation

### Reduced Oil Consumption

- Lower evaporation loss results in less oil top-up

### Extended Drain Capability

- Allows for flexible oil drain intervals managed by the vehicles on-board computer<sup>\*\*</sup>

## APPLICATIONS

SUPREME EU-X Synthetic 5W-40 motor oil is recommended for passenger cars, vans, sport utility vehicles and light duty trucks powered by gasoline or diesel engines.

SUPREME EU-X Synthetic 5W-40 performance level: Meets ACEA A3/B4, suitable for API SN, VW 502 00 / 505 00, MB 229.3, 229.5, Porsche A40, BMW LL-01, Opel GM-LL-B-025, Peugeot PSA B71 2296, Renault RN0700 / RN0710.

Always consult the owner’s manual to select the appropriate viscosity grade for the vehicle.

## PRODUCT AVAILABILITY

SUPREME EU-X Synthetic 5W-40 motor oil is available in Canada and the United States in the Petro-Pak 6 USG size. Check with your sales representative for details.

<sup>\*</sup>Sulfated Ash, Phosphorus, Sulfur

<sup>\*\*</sup>Or follow owner’s manual recommendations

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	SUPREME EU-X SYNTHETIC 5W-40
Density, kg/L @ 15°C / 60°F	D4052	0.852
Colour	D1500	<3.5
Flash Point, COC, °C / °F	D92	217 / 422
Pour Point, °C / °F	D5950	-42 / -44
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	83.2 13.6
Viscosity Index	D2270	167
Cold Cranking Viscosity, cP @ °C / °F	D5293	5600 @ -30 / -22
Borderline Pumping Viscosity, cP @ °C / °F	D4684	31,000 @ -35 / -31
Volatility (Noack), % loss	D5800	9.0
Sulphated Ash, % wt.	D874	1.2
Sulphur, mass %	D4294	0.2
Phosphorus, mass %	D4951	0.10
Base Number, (BN), mg KOH/g	D2896	10.0
High-Temperature High-Shear (HTHS) Viscosity, cP @ 150°C and 1E+06/s	D4683/5481	3.8

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

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IM-8179E (2021.02)