



PRODUCT INFORMATION & DATA SHEET

FS SUPER SAE 5W-40 SP

High-performance, fully synthetic passenger car motor oil, expertly crafted for a wide range of latest generation gasoline and certain diesel engines without EGR, DPF, SCR. It ensures exceptional cleanliness, durability, and efficiency in the latest gasoline engine designs. This motor oil meets or even exceeds the latest applicable car maker and industry standards, delivering superior overall performance and wear protection against everyday challenges, including stop-and-go traffic, intense driving behavior, severe temperatures, and LSPI. It provides optimal protection for turbocharger and timing chain while shielding critical engine parts from harmful deposits and sludge. Its optimal friction properties maximize fuel efficiency and contribute to environmental protection.

FS SUPER meets API SP performance benchmark and delivers the added performance benefits needed to meet the demanding gasoline engine technology, including downsizing, turbocharging, direct injection, gasoline particulate filter (GPF), and catalytic converter. This oil offers elevated protection against stochastic pre-ignition event (LSPI) and wear protection for timing chains, and bearing components. It features significantly improved thermal and oxidation stability versus SN oils, providing exceptional shields against power-robbing piston deposits and sludge in vital engine parts to ensure utmost engine durability and efficiency.

Performance Levels

API SP, API CF, ACEA A3/B4, BMW LL-01, Fiat 9.55535-N2, Fiat 9.55535-Z2, GM-LL-B-025, MB 229.3, MB 229.5, Porsche A40, PSA B71 2296, Renault RN0700, Renault RN0710, VW 502.00, VW 505.00

Key Benefits

- Advanced anti-wear technology protects sensitive engine parts ensuring their longevity.
- Consistent oil performance across all temperatures with a stable viscosity index.
- Excellent thermal stability and oxidation resistance extend both oil and engine life.
- Excellent low-temperature flow capabilities for immediate engine protection at start-up.
- Superior shear stability preserves viscosity and oil film strength even under stress.
- Low pour point safeguards against turbocharger oil starvation in cold temperatures.
- Optimized friction reduces fuel consumption and enhances driving smoothness.
- Unmatched engine cleanliness with our specialized detergent and dispersant formulation.

Areas of Application

For application in a broad spectrum of gasoline, LPG and CNG engines, requiring API SP oil, whether equipped with or without turbocharging, direct injection, and catalytic converters. The API SP specification is backward compatible with earlier standards. However, this oil is not recommended for new-generation diesel engines equipped with EGR, DPF, SCR Nox Reduction systems.

Service Recommendation

Follow the manufacturer's recommended oil drain interval and refer to the owner's manual. We recommend flushing the engine before adding new oil and replacing the oil filter during the oil change.

Commercially Available Product Compatibility

Our PCMO is fully compatible with any synthetic and conventional engine oil. Maximum performance is assured only when used on its own, without being mixed with other oils.

Typical properties

<u>SAE Viscosity</u>		<u>5W-40</u>
Viscosity Index (VI)	ASTM D2270	161
Viscosity at 100 °C; mm ² /s	ASTM D445	13.5
Viscosity at 40 °C; mm ² /s	ASTM D445	82.6
Density at 15 °C; kg/m ³	ASTM D4052	842.0
HTHS Viscosity at 150 °C; mPa.s	ASTM D4683	> 3.5
CCS Viscosity at -30 °C	ASTM D5293	< 6600
Flash Point; °C	ASTM D92	238
Pour Point; °C	ASTM D97	-36
Sulfated Ash; mass%	ASTM D874	1.31
Total Base Number; mgKOH/g	ASTM D2896	6.5

The information show herein is subject to change without noticed. The product indicated here have been developed by PRINCE LUBRICANTS for use in the areas of applications shown. We reserve all right to alter the characteristics and product properties to align with continually technical development.

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