



PRODUCT INFORMATION & DATA SHEET

PRINCE® FS2 SAE 5W-40

The Par-Excellence Fully Synthetic Motor Oil.

FS2 SAE 5W-40 is a high-performance motor oil that has been formulated to meet and even exceeds the performance requirements of API SN standard and modern vehicle constructions, allowing a very high degree of engine and turbocharger protection, piston deposits control, and valvetrain wear protection in the more prevalent gasoline engines, including those with direct injected and start-stop designs.

This motor oil guarantees that direct injection engines receive optimal protection against the stochastic pre-ignition (LSPI) phenomenon and engine knocking issues, which arise from high-pressure accumulation in cylinder components.

This oil is fortified with superior dispersant and deposits-fighting additives, ensuring optimal control of sludge and elimination of high-temperature deposits on pivotal engine components, e.g., pistons and camshafts. It guarantees the maximum level of engine cleanliness until the next oil change interval. Additionally, it has been rigorously tested to be safe for catalytic converters, including Three-way catalyst (TWC). Compliance with rigid environmental regulations with environmentally friendly additive technologies.

This motor oil complies with the following industry specifications:

API SN, API CH-4, ACEA A3/B4, BMW LL-01, Chrysler MS-10850, Fiat 9.55535-H2, GM LL-B-025, MB 229.3/ 229.5, PSA B71 2296, Renault RN0700/ RN0710, VW 502.00/ 505.00

Benefits of using this motor oil:

- Adequate viscosity control and capable of maintaining film strength for reliable lubrication across a range of operating conditions.
- Contains specially formulated anti-friction and anti-wear additive technology to minimize wear formation, offering exceptional drivability and reduce maintenance cost.
- Compatibility with modern gasoline engine technologies, including those with hybrid, turbocharger and direct injection systems.
- Designed with thermal resistance properties to resist high-temperature deposits, oil decomposition and dilution, ensuring longer oil and engine's service life.
- Effectively preventing excessive foaming of the oil, which could reduce its effectiveness in lubricating critical engine components.
- Excellent ageing and oxidation stability, minimizing oil degradation and thickening to support extended drain interval if required.
- Good lubrication capacities in cold ambient promote easier cold-start and flowability, facilitating immediate engine protection.
- Outstanding protection on timing chain of the camshafts and crankshaft allowing precise operation timing of engine valves during each cylinder firing.
- Tested safe on Three-way catalysts (TWCs) and sealing materials, guaranteeing optimal components care and maintenance.

Areas of application

Developed for uses in a wide variety of naturally aspirated, turbocharged, direct injection, multi-valve gasoline engines, with and without catalytic converter require using an API SN specified motor oil. The API SN specification is completely backward compatible and serviceable with previous API specifications.

Suitable for use in diesel engines requiring API CH-4 and API CF specified oils. However, this motor oil is not suitable for uses in the modern EURO 4, 5 and 6 diesel engines, equipped with modern Exhaust gas recirculation system (EGR) and Diesel particulate filter (DPF).

Typical properties

<u>SAE Viscosity</u>		<u>5W-40</u>
Viscosity Index (VI)	ASTM D2270	164
Viscosity at 100 °C; mm ² /s	ASTM D445	13.5
Viscosity at 40 °C; mm ² /s	ASTM D445	83.3
Density at 15 °C; kg/m ³	ASTM D4052	855.0
HTHS Viscosity at 150 °C; cP	ASTM D4683	3.7
Flash Point; °C	ASTM D92	236
Pour Point; °C	ASTM D97	-34

Service recommendation

Follow the oil drain interval required by the respective manufacturers. Observe the owner's manual booklet. Recommend to flush before add in new oil. Change oil filter at time of oil change.

Commercially available product compatibility

Our fully synthetic motor oil is compatible with other fully synthetic, synthetic and/or conventional motor oils. Peak performance is guaranteed only upon using alone without mixing with other motor oils. Our motor oil products are designed and developed with appropriate additive package. Hence, aftermarket oil additive products are not recommended for used alongside.

Product availability

This product may not be available locally. Contact your local distributor.

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.