



PRODUCT INFORMATION & DATA SHEET

FS SUPER SAE 0W-20 GF-5

Low-HTHS (High-Temperature High-Shear) viscosity fully synthetic motor oil, formulated with advanced additive solutions to meet API SN PLUS and ILSAC GF-5 performances. Designed for a wide range of passenger car gasoline and hybrid engines, with or without turbocharging, it primarily enhances fuel efficiency and emissions protection while delivering elevated performance across multiple performance areas, these include city stop-start wear protection, power-robbing piston deposit protection, low-temperature sludge resistance, as well as defense against oxidative and thermal-related breakdown. It meets all of the performance levels claimed by Japanese car manufacturers in relation to environmental standards.

The 0W- viscosity grade and progressive wear-shielding additive technology deliver superb low-temperature protection (down to -42°C), ensuring rapid cold-ambient starting and seamless penetration into narrow engine gaps for worry-free protection.

Performance Levels

API SN PLUS, API SN, ILSAC GF-5

Key Benefits

- Ideally suitable for mild-hybrid, plug-in-hybrid, and non-hybrid gasoline engines.
- Advanced anti-wear technology protects vital 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.
- Outstanding low-temperature fluidity for instant engine protection at start-up.
- Lower internal friction boosts fuel savings and promotes eco-friendly performance.
- Optimized ash levels improve catalyst functionality and three-way catalyst operation.
- Optimal engine cleanliness with our specialized detergent and dispersant formulation.
- Perfectly suited with downsized gasoline engines utilizing stop-start technology.

Areas of Application

Developed for hybrid and non-hybrid gasoline engines with or without turbocharging, where the manufacturer recommends an API SN PLUS and/or ILSAC GF-5 specified 0W-20 low-viscosity oil. The API SN PLUS and ILSAC GF-5 are both backward compatible with earlier standards. However, this oil is not recommended for high-performance gasoline engines requiring high HTHS viscosity oil.

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>0W-20</u>
Viscosity Index (VI)	ASTM D2270	163
Viscosity at 100 °C; mm ² /s	ASTM D445	8.2
Viscosity at 40 °C; mm ² /s	ASTM D445	43.0
Density at 15 °C; kg/m ³	ASTM D4052	847.0
HTHS Viscosity at 150 °C; mPa.s	ASTM D4683	< 3.5
CCS Viscosity at -35 °C	ASTM D5293	< 6200
Flash Point; °C	ASTM D92	226
Pour Point; °C	ASTM D97	-42
Sulfated Ash; mass%	ASTM D874	1.16

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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