



## RAVENOL Super Fuel Economy SFE SAE 5W-20

RAVENOL Super Fuel Economy SFE SAE 5W-20 is full synthetic, low-friction engine oil based on PAO (Polyalphaolefines) with CleanSynto® technology for car gasoline and diesel engines, with and without turbocharging and direct injection. Minimises friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer. The oil formulation minimises the likelihood of Low-Speed Pre-Ignition (LSPI) of the fuel. It is recommended for turbocharged petrol engines with direct fuel injection (Turbo-GDI).

RAVENOL Super Fuel Economy SFE SAE 5W-20 has a high viscosity index because of its formulation with special base oils. The excellent cold start behaviour provides an optimum lubricating safety during the cold run phase. Because of a considerable fuel saving RAVENOL Super Fuel Economy SFE SAE 5W-20 contributes to protect the environment by reducing the emissions.

### Application Notes

RAVENOL SFE 5W-20 is an universal fuel-efficient engine oil, a top-quality product for modern passenger cars with gasoline engines of the latest generation.

### Quality Classifications

#### Specifications

ACEA A5/B5

#### Approvals

License: API SN Resource Conserving / SM Energy Conserving, ILSAC GF-5

#### Practice and tested in aggregates with filling

Meets FORD WSS-M2C930-A, FORD WSS-M2C930-B (extended drain capability), Ford WSS-M2C925-A/B, Ford WSS-M2C948-B, Chrysler MS-6395, Honda/Acura HTO-6, Nissan, MAZDA, Suzuki, Toyota, Fiat 9.55535-CR1

### Characteristic

RAVENOL Super Fuel Economy SFE SAE 5W-20 offers:

- Guaranteed fastest possible lubrication of the engine.
- High fuel economy (FE) effect due to the base oils and additives used. Low volatilization tendency, thereby lower oil consumption.
- Provides protection against sludging, coking, varnish and corrosion even under unfavorable operating conditions.
- No oil-related deposits in combustion chambers in the piston ring zone and on valves.
- Ensures the function of the hydraulic tappets at all temperatures.
- Stable engine oil, no NOx oxidation.
- Good aging behavior, confirmed by the Hot Tube Test.
- Good soot absorption and dispersion.
- Neutral towards sealing materials.

Characteristics	Unit	Data	Audit
Colour		brown	visual
Density at 20°C	kg/m <sup>3</sup>	851	EN ISO 12185
Viscosity at -30°C	mPa.s	3700	ASTM D5293
Viscosity at 40°C	mm <sup>2</sup> /s	45,3	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	8,4	DIN 51 562
Viscosity index VI		164	DIN ISO 2909
Flash point (COC)	°C	227	DIN ISO 2592
Pourpoint	°C	-45	DIN ISO 3016
TBN	mg KOH/g	10	DIN ISO 3771
HTHS at 150°C	mPa*s	2,9	CEC L-036-90

All indicated data are approximate values and are subject to the commercial fluctuations.

All information correspond to the best of our knowledge to the actual situation of the cognitions and our development. Subject to alterations. All references made to DIN-norms are only for the description of the goods. There is no guarantee. In case there will be any problems please contact the technical service.

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