



RAVENOL DFE SAE 0W-20



VISCOSITY 0W-20

SPECIFICATIONS API SN PLUS | API SP (RC) | ILSAC GF-6A

FABRICATION FULLY SYNTHETIC

APPROVALS GM DEXOS1™ GEN 2 | LICENSE: API SN RESOURCE CONSERVING / SM ENERGY CONSERVING, ILSAC GF-5

RECOMMENDATIONS CHRYSLER MS-6395 | CHRYSLER MS-13340 | FORD WSS-M2C947-A | FORD WSS-M2C947-B1

ART.-NR. 1111109

1 L	1111109-001
4 L	1111109-004
5 L	1111109-005
10 L	1111109-010
20 L	1111109-020
20 L	1111109-B20
60 L	1111109-060
60 L	1111109-D60
208 L	1111109-208
208 L	1111109-D28
1000 L	1111109-700

RAVENOL DFE SAE 0W-20 is a PAO (Polyalphaolefin) based, fully synthetic low friction motor oil with especially USVO® and proven CleanSynto® technology for passenger car petrol engines with and without turbo-charging and direct injection.

Due to the USVO® technology we achieve an extremely high viscosity stability. We avoid the disadvantages of polymeric viscosity improvers while taking advantage of them. This improves engine protection, performance, engine cleanliness and oil drain intervals. The USVO® technology makes it possible that the product has no shear losses during the entire change interval and is extremely stable to oxidation. This unique technology helps oil to be lubricated faster, thereby minimizing friction while keeping the engine clean and efficient.

RAVENOL DFE SAE 0W-20 utilizes the positive properties of tungsten to smooth the surface structure of the motor, reducing friction and wear, and significantly improving mechanical efficiency.

RAVENOL DFE SAE 0W-20 ensures the prevention of premature fuel ignition LSPI (Low Speed Pre-ignition), thus avoiding engine damage. The excellent cold start behavior ensures optimum lubrication safety during the cold running phase.

By significantly reducing fuel consumption, **RAVENOL DFE SAE 0W-20** helps to protect the environment by reducing emissions.

RAVENOL DFE SAE 0W-20 minimizes friction, wear and fuel consumption with excellent cold start characteristics.

Extended oil change intervals according to the manufacturer 's instructions.

Application Notes

RAVENOL DFE SAE 0W-20 is suitable as a high-performance light-running engine oil for demanding engines. It is recommended for modern passenger car engines from OPEL, GENERAL MOTORS, Chevrolet, Daewoo and Holden according to Dexos1 specification under all operating conditions.

RAVENOL DFE SAE 0W-20 is also applicable to the specified specifications of Ford and Chrysler.



Characteristics

RAVENOL DFE SAE 0W-20 offers:

- Fuel savings in partial and full load operation
- LowSAPS = Low sulfate ash, phosphorus and sulfur
- Very stable and excellent viscosity behavior
- Excellent shear stability
- Very good cold start characteristics
- A safe lubrication film at very high operating temperatures
- Very good detergents and dispersing properties
- Very good wear and corrosion protection
- Protection from foam formation
- Excellent detergent and dispersant properties
- Long life due to high oxidation stability
- Catalyst suitability

Property	Unit	Data	Audit
Density at 20°C	kg/m ³	840,0	DIN 51757
Colour		gelbbraun	visual
Viscosity at 100°C	mm ² /s	8,4	DIN 51 562
Viscosity at 40°C	mm ² /s	45,9	DIN 51 562
Viscosity index VI		163	DIN ISO 2909
HTHS at 150°C	mPa*s	2,69	ASTM D5481
CCS Viscosity at -35°C	mPa*s	4150	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -40°C	mPa*s	11.200	ASTM D 4684
Pourpoint	°C	-63	DIN ISO 3016
Noack Volatility	% M/M	7,6	ASTM D5800/b
Flash point	°C	238	DIN ISO 2592
TBN	mg KOH/g	9,0	ASTM D2896
Sulphated ash	%wt.	0,8	DIN 51 575



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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