



RAVENOL Formel Standard SAE 10W-30



VISCOSITY 10W-30

SPECIFICATIONS API SF | API CD | ACEA A2

FABRICATION MINERAL

RECOMMENDATIONS CCMC G4 (GÜLTIG BIS 31.12.96) | MB 227.1 | MIL-L-46152 B | MIL-L-2104 D

RAVENOL Formel Standard SAE 10W-30 is excellent multigrade engine oil, which is used in car and truck engines. It corresponds to the requirements of modern diesel engines with and without charge. The favorable viscosity range ensures the high all year lubricity by different operating conditions.

ART.-NR. 1113110

1 L	1113110-001
4 L	1113110-004
5 L	1113110-005
10 L	1113110-010
20 L	1113110-020
20 L	1113110-B20
60 L	1113110-060
60 L	1113110-D60
208 L	1113110-208
208 L	1113110-D28
1000 L	1113110-700

Application Notes

RAVENOL Formel Standard SAE 10W-30 should be used according the manufacturer's instructions for diesel and gasoline engines.

Characteristics

RAVENOL Formel Standard SAE 10W-30 offers:

- Protection against corrosion
- A very good shear stability
- A very high oxidation stability
- An excellent viscosity temperature behaviour
- Efficient function of hydraulic shock absorbers (hydraulic valve compensation)
- Convincing detergent and dispersant attributes
- High security reserves even under limited lubrication conditions
- Neutrality against sealing materials
- Very good cold start attributes
- Avoids the formation of conglomerations, pigmenting, coking and accumulation of mud (black sludge)



- on cylinders, pistons, valves, sparking plugs and in turbo superchargers
- No problems with the use in catalyst vehicles

Property	Unit	Data	Audit
Density at 20°C	kg/m ³	864,0	EN ISO 12185
Colour		gelbbraun	visual
Viscosity at 100°C	mm ² /s	10,9	DIN 51 562
Viscosity at 40°C	mm ² /s	72,1	DIN 51 562
Viscosity index VI		140	DIN ISO 2909
Pourpoint	°C	-36	DIN ISO 3016
Flash point (COC)	°C	232	DIN ISO 2592
TBN	mg KOH/g	7,25	ASTM D2896
Sulphated ash	%wt.	ca. 0,8	-
CCS Viscosity at -35°C	mPa*s	6350	
Low Temp. Pumping viscosity (MRV) bei -40°C	mPa*s		

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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