



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

## RAVENOL FORMEL STANDARD SAE 10W-30

**Category** Passenger car motor oil

**Item number** 1113110

**Viscosity** 10W-30

**Specification** ACEA A2/B2, API CD, API SF

**Oil type** Mineral

**Recommendation** CCMC G4, MB 227.1, MIL-L-2104 D, MIL-L-46152 B

**Application** Passenger car

**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.

### Application Note

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

### Characteristics

- 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

### Technical Product Data

Density at 20 °C	859,0	kg/m <sup>3</sup>	EN ISO 12185
Colour	gelbbraun		VISUELL
Viscosity at 100 °C	11,7	mm <sup>2</sup> /s	DIN 51562-1
Viscosity at 40 °C	78,3	mm <sup>2</sup> /s	DIN 51562-1
Viscosity Index VI	142		DIN ISO 2909
CCS Viscosity at -35 °C	6000	mPa*s	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -40 °C	21.400	mPa*s	ASTM D4684
Pourpoint	-36	°C	DIN ISO 3016
Flashpoint	232	°C	DIN EN ISO 2592
tbn	7,2	mg KOH/g	ASTM D2896
Sulphated Ash	0,9	%wt.	DIN 51575

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