



**1 L | 1112110-001**  
**4 L | 1112110-004**  
**5 L | 1112110-005**  
**10 L | 1112110-010**  
**20 L | 1112110-020**  
**20 L | 1112110-B20**  
**60 L | 1112110-060**  
**60 L | 1112110-D60**  
**208 L | 1112110-208**  
**208 L | 1112110-D28**  
**1000 L | 1112110-700**

## RAVENOL TSi SAE 10W-40

**Category** Passenger car motor oil

**Item number** 1112110

**Viscosity** 10W-40

**Specification** ACEA A3/B4, API CF, API SM, API SN

**Oil type** Synthetic

**Approvals** API SM, API SN, BMW Special Oil, MB-Freigabe 229.1, VW 501 01 / 505 00

**Recommendation** MB 229.3, VW 502 00 / 500 00

**Application** Passenger car

**RAVENOL TSi SAE 10W-40** is a high additive treated engine oil which allows an energy-saving operation because of its additivation, choice of base oils and viscosity adjustment. In order to guarantee the low viscosity of the SAE class 10W as well as a low evaporation loss **RAVENOL TSi SAE 10W-40** is produced on the basis of hydro crack oils and polyalphaolefins (PAO) which correspond to the high tech demands.

**RAVENOL TSi SAE 10W-40** contains less than 30 % Polyalphaolefins (PAO).

### Application Note

**RAVENOL TSi SAE 10W-40** is suitable for all modern cars with petrol and diesel engines all the year; no sludge in the motor, excellent results during the test run. High engine cleanness is guaranteed also in case of turbo charging and a complete catalyst operation as well as multi valves and diesel direct injections.

### Characteristics

- High abrasion resistance
- Fuel saving because of easy running characteristics
- Excellent detergent and dispersant characteristics
- Prevention of black sludge creation
- Long endurance because of high oxidation stability
- Excellent cold start performance
- Very good viscosity temperature behaviour
- Low evaporation
- Suitable for catalysts

### Technical Product Data

Property	Unit	Data	Audit
Sulphated Ash	1,3	%wt.	DIN 51575
tbn	10,0	mg KOH/g	ASTM D2896
Viscosity at 100 °C	14,5	mm <sup>2</sup> /s	DIN 51562-1
Viscosity at 40 °C	97,7	mm <sup>2</sup> /s	DIN 51562-1
Viscosity Index VI	153		DIN ISO 2909
CCS Viscosity at -25 °C	6300	mPa*s	ASTM D5293
Density at 20 °C	862,0	kg/m <sup>3</sup>	EN ISO 12185
Flashpoint	224	°C	DIN EN ISO 2592
HTHS Viscosity at 150 °C	4,03	mPa*s	ASTM D5481
Low Temp. Pumping viscosity (MRV) at -30 °C	18.000	mPa*s	ASTM D4684
Noack Volatility	10,7	% M/M	ASTM D5800
Pourpoint	-42	°C	DIN ISO 3016

05.10.2021