



## RAVENOL TSi SAE 10W-40



**VISCOSITY** 10W-40

**SPECIFICATIONS** ACEA A3 | ACEA B4 | API SN | API SM | API CF

**FABRICATION** SEMI-SYNTHETIC

**APPROVALS** VW 501 01 | MB-FREIGABE 229.1 | VW 505 00 | BMW SPECIAL OIL | LICENSE: API SN, API SM

**RECOMMENDATIONS** VW 502 00/ 500 00 | MB 229.3

### ART.-NR. 1112110

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** 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 Notes

**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

**RAVENOL TSi SAE 10W-40** offers:

- High abrasion resistance
- Fuel saving because of easy running characteristics
- Excellent detergent and dispersant characteristic
- 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



Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	862	EN ISO 12185
Colour		braun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	14,5	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	97,7	DIN 51 562
Viscosity index VI		153	DIN ISO 2909
HTHS at 150°C	mPa*s	4,03	ASTM D5481
CCS Viscosity at -25°C	mPa*s	4900	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -30°C	mPa*s	18.000	ASTM D4684
Pourpoint	°C	-42	DIN ISO 3016
Noack Volatility	% M/M	10,7	ASTM D5800
Flash point (COC)	°C	224	DIN ISO 2592
TBN	mg KOH/g	10,0	ASTM D2896
Sulphated ash	%wt.	1,3	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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