

## - Certificate / Product Information -

### RAVENOL SSO SAE 0W-30

Art. 1111100

CleanSynto®

#### Description:

**RAVENOL SSO SAE 0W-30** is fully synthetic low friction multigrade engine oil for all petrol and diesel passenger cars with and without turbo charger, especially recommended as economy measures of varieties of full synthetic all-season engine oil. A formulation with synthesis technology and a special balanced additive package supplies a safe lubrication under all possible driving conditions. **RAVENOL SSO SAE 0W-30** has a high viscosity index because of its formulation with special base oils. The excellent cold start behaviour provides an optimum lubricating safety during the cold run phase. Because of a considerable fuel saving **RAVENOL SSO SAE 0W-30** contributes to protect the environment by reducing the emissions.

#### Application Directions:

**RAVENOL SSO SAE 0W-30** is universal, fuel-efficient engine oil. It is a premium product for gasoline and diesel engine passenger cars. Suitable for all petrol and diesel passenger cars with and without turbo charger, especially recommended for full synthetic all-season motor oils.

#### Quality Classification:

**RAVENOL SSO SAE 0W-30** is approved, tried and tested for aggregates specifying:

Specifications: API SN/CF, ACEA A3/B4

Approvals: BMW Longlife-98, MB-Approval 229.5, Renault RN0700/RN0710, VW 502 00, VW 505 00, VOLVO VCC 95200356 (Service Fill)

Recommendations: VW 503 01(Audi), GM-LL-A-025, GM-LL-B-025, BMW Longlife-01

#### Technical Characteristics:

**RAVENOL SSO SAE 0W-30** offers:

- universal application in all modern petrol and diesel engines
- fuel savings of up to 8% against conventional motor oils
- quick lubrication of the engine even at temperatures below -30 °C
- low evaporation tendency, therefore a lower oil consumption
- safety against accumulation of sludge, coking and corrosion even under unfavourable operating conditions
- guarantee of the function of the hydro tappets at all temperatures
- no oil limited deposits in combustion chambers, at the piston ring and valves
- unchanged viscosity during the whole oil change interval, high viscosity index
- neutral against sealing materials
- Miscibility with all commercially available engine oils. Flushing is not required.

#### Technical Values:

Characteristics		unit	data	test according to
<b>Colour</b>			brown	visual
<b>Density</b>	at 20°C	kg/m <sup>3</sup>	843	EN ISO 12185
<b>Viscosity</b>	at -35°C	mPa*s	5450	ASTM D5293
	at 40°C	mm <sup>2</sup> /s	61,0	DIN 51 562
	at 100°C	mm <sup>2</sup> /s	11,0	DIN 51 562
<b>Viscosity index VI</b>			174	DIN ISO 2909
<b>Flash point (COC)</b>		°C	236	DIN ISO 2592
<b>Pour point</b>		°C	-51	DIN ISO 3016
<b>TBN</b>		mg KOH/g	10,1	DIN ISO 3771

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

To the best of our knowledge all information reflects the current state of findings and our development. Subject to change. Any reference to DIN standards are solely for product description purposes and do not represent a guarantee. If problems occur please consult a technician.