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- Certificate / Product Information -

**RAVENOL Extra Fuel Economy EFE SAE 0W-16**  
**Art. 1111115**

**RAVENOL Extra Fuel Economy EFE SAE 0W-16** is the worldwide first motor oil with license approval from API with its specification API SN and viscosity SAE 0W-16.

**RAVENOL Extra Fuel Economy EFE SAE 0W-16** is a fully synthetic, smooth-running motor oil with CleanSynto® technology of the new SAE category 0W-16 for passenger cars, petrol engines with and without turbo charging and direct injection. **RAVENOL Extra Fuel Economy EFE SAE 0W-16** is recommended especially for hybrid vehicles.

**RAVENOL Extra Fuel Economy EFE SAE 0W-16** was formulated with tri-nuclear molybdenum and OFM (Organic Friction Modifiers), in order to achieve minimal friction, wear and fuel consumption whilst realising excellent cold start properties. Extended oil change intervals according to manufacturer's specifications. The excellent cold start performance ensures optimum lubrication reliability in the cold running phase. A clear fuel consumption is achieved thanks to the smooth-running properties of the new SAE category 0W-16.

**RAVENOL Extra Fuel Economy EFE SAE 0W-16** makes its contribution to protecting the environment by reducing emissions.

### **Application Notes**

**RAVENOL Extra Fuel Economy EFE SAE 0W-16** is suitable as a high performance, smooth-running engine oil for sophisticated engines. It is recommended for modern passenger car fuel and diesel engines, including the supercharge models and for direct injection engines and hybrid vehicles under all operating conditions, if the engine manufacturer recommends using a low viscosity oil with the viscosity category 0W-16, 0W-20 or 5W-20.

### **Quality Classifications**

Specifications API SN

Practice and tested in aggregates with filling: Honda 08215-99974, 08216-99974, 08232-P99S1LHE, Honda Ultra Next, Ultra Green, Hybrid Engine Nissan KLANM-01A04 Extra Save X Eco, Mitsubishi MZ102661, MZ102662, Mitsubishi DiaQueen ECO Plus, Toyota 08880-11005

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.  
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## Characteristic

### RAVENOL Extra Fuel Economy EFE SAE 0W-16 offers:

- Fuel saving in partial and full load operation
- Excellent wear protection and a high viscosity index ensure the long service life of the engine even under high speed driving conditions.
- Excellent cold start properties even at low temperatures of below -35°C.
- A reliable lubrication film even at high operating temperatures.
- Low volatility, resulting in low oil consumption.
- No oil-related deposits in combustion chambers, in the piston ring zone and on valves.
- Compatible with sealing materials.
- Extended oil change intervals protect natural resource

Characteristics	Unit	Data	Audit
Colour		green	visual
Density at 20°C	kg/m <sup>3</sup>	843,1	EN ISO 12185
Viscosity at -35°C	mPa.s	4400	ASTM D5293
Viscosity at 40°C	mm <sup>2</sup> /s	38,36	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	7,24	DIN 51 562
Viscosity index VI		156	DIN ISO 2909
Flash point	°C	242	DIN ISO 2592
Pourpoint	°C	-58	DIN ISO 3016
TBN	mg KOH/g	6,17	DIN ISO 3771
Sulphated ash	%wt.	0,9	DIN 51 575
Noack Volatility	%	8,2	ASTM D5800/b
HTHS at 150°C	mPa*s	2,4	CEC L-036-90
Viscosity (MRV) at -40°C	mPa*s	10400	ASTM D3829

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