



## RAVENOL Formel Extra SAE 20W-50



**VISCOSITY** 20W-50

**SPECIFICATIONS** API SF | API CD | ACEA A2 | ACEA B2

**FABRICATION** MINERAL

**RECOMMENDATIONS** MIL-L-46152 B | CCMC G4 (GÜLTIG BIS 31.12.96)

**RAVENOL Formel Extra 20W-50** is a mineral multigrade engine oil for passenger car gasoline and diesel engines with and without turbocharging, and is also suitable for commercial vehicle engines. Designed to minimize friction and wear, the formulation ensures year round high lubricity throughout all operating conditions. Extended oil drain capability where recommended by the vehicle manufacturer.

### ART.-NR. 1113120

1 L	1113120-001
4 L	1113120-004
5 L	1113120-005
10 L	1113120-010
20 L	1113120-020
20 L	1113120-B20
208 L	1113120-208
208 L	1113120-D28
1000 L	1113120-700

## Application Notes

**RAVENOL Formel Extra 20W-50** is suitable for both gasoline and diesel engines which require this grade of engine oil.

## Characteristics

**RAVENOL Formel Extra 20W-50** offers:

- Excellent protection against corrosion
- A very good shear stability
- A high oxidation stability
- An excellent viscosity-temperature behavior
- Optimum operation of hydraulic tappets (hydraulic valve adjustment)
- High levels of detergent and dispersant additives for cleaner engines
- Compatible with all types of sealing materials
- Very good cold starting properties
- Prevents the formation of adhesions, varnish, carbon deposits and sludge accumulation



Property	Unit	Data	Audit
Density at 20°C	kg/m <sup>3</sup>	880,0	EN ISO 12185
Colour		gelbbraun	visual
Viscosity at 100°C	mm <sup>2</sup> /s	17,8	DIN 51 562
Viscosity at 40°C	mm <sup>2</sup> /s	162,0	DIN 51 562
Viscosity index VI		121	DIN ISO 2909
Pourpoint	°C	-24	DIN ISO 3016
Flash point	°C	250	DIN ISO 2592
TBN	mg KOH/g	7,3	ASTM D2896
Sulphated ash	%wt.	0,9	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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