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## **RAVENOL HTC Hybrid Technology Coolant Concentrate**

### **AMINE - PHOSPHATE - FREE**

**RAVENOL HTC Hybrid Technology Coolant Concentrate** is an all-season amine and phosphate-free mono-ethylene glycol based coolant with frost and rust protection for Mercedes, BMW, Opel, Saab and General Motors engines. This product is formulated based on a proven inhibitor development by combining silicates with the organic additive technology OAT as an extended life coolant.

The quality of an antifreeze is no longer just determined by the antifreeze effect (which automatically exists in an ethylene-glycol based product), but by the rust protection.

That is why automakers subject antifreeze to lengthy corrosion and cavitation tests.

**RAVENOL HTC Hybrid Technology Coolant Concentrate** protects the cooling system from rust, frost, and in summer, from overheating.

### **Application Notes**

**RAVENOL HTC Hybrid Technology Coolant Concentrate** with frost and rust protection for year-round use in automotive engines.

Mix according to chart. Please follow manufacturer instructions.

Instructions: Clean cooling system, test leak tightness, flush.

Mix **RAVENOL HTC Hybrid Technology Coolant Concentrate** with clean water (per mixing chart) and add. Allow engine and heater to warm up, add coolant to fill level.

### **Quality Classifications**

**RAVENOL HTC Hybrid Technology Coolant Concentrate** is tried and

tested for aggregates specifying:

## **Specifications**

ASTM D 3306, ASTM D 4985, ASTM D 4340, SAE J1034, NATO S-759, FORD ESE-M978B4H-A, FORD AF Plus, MAN 324, SAAB, GM 1825M, OPEL-GM QL130100, DAF, GM 1899M, GM 93740141, GM 93740140, MB A000989082510, VW-AUDI-PORSCHE, GM SATURN, ROVER, PORSCHE, John Deer, JAGUAR, BMW 81 22 9 407 454, 83 19 2 211 191, RENAULT, Honda OL999-9011

## **Approvals**

VW TL 774-C

## **Practice and tested in aggregates with filling**

MB 325.0

## **Characteristic**

**RAVENOL HTC Hybrid Technology Coolant Concentrate** offers:

- Excellent for use in cast iron or aluminium engines, or alloys of the two metals, and aluminium and copper alloy radiators
- Good reserve alkalinity
- Protection from corrosion and cavitation
- Prevents sediments and foaming in the cooling system
- Compatible with elastomers used in automotive radiators

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| <b>Characteristics</b>       | <b>Unit</b>       | <b>Data</b> | <b>Audit</b> |
|------------------------------|-------------------|-------------|--------------|
| Colour                       |                   | blau        | visual       |
| Density at 20°C              | kg/m <sup>3</sup> | 1130        | EN ISO 12185 |
| Flash point                  | °C                | >100        | DIN 51 758   |
| Boiling point                | °C                | >160        | ASTM D 1120  |
| pH-value (50 %, 20°C)        |                   | 7,5         | ASTM D 1287  |
| Reserve alkalinity           | ml 0,1 n HCL      | >15         | ASTM D 1121  |
| Water content                | Gew.-%            | <5          | ASTM D 1123  |
| Freezing point (50 %-Lösung) | °C                | -37         | ASTM D 1177  |

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