

- Certificate / ProductInformation-

RAVENOL TTC Concentrate Protect C11

Art. 1410100

NITRITE-, AMINE-, PHOSPHATE-FREE
TRADITIONAL TECHNOLOGY COOLANT, ANTIFREEZE

PROTECT C11
WINTER PRODUCTS

Description:

RAVENOL TTC Concentrate Protect C11 is an eco-friendly 1.2- Ethanediol (monoethylene glycol) based nitrite, amine and phosphate-free coolant for cooling circuits in combustion engines which provides maintenance-free corrosion and frost protection. The product is formulated as a long-term coolant based on a proven inhibitor development.

It is no longer just the anti-freeze effect (which automatically exists in an ethylene-glycol based product) which is critical for the quality of a coolant, but also the rust protection.

Therefore automakers subject coolants to long corrosion and cavitation tests.

RAVENOL TTC Concentrate Protect C11 protects the cooling system from corrosion, frost, and in the summer from overheating.

Application Directions:

RAVENOL TTC Concentrate Protect C11 with frost and rust protection. Use according to the mixing chart. Follow manufacturer's recommendations.

Even in summer coolant must contain enough antifreeze to ensure good corrosion and overheating protection.

Instructions: Clean cooling system, check for leaks, flush.

Mix **RAVENOL TTC Concentrate Protect C11** with fresh water (per mixing chart) and add. Allow engine and heater to warm up, add coolant to fill level.

Mixing chart:

Antifreeze protection until	Parts Antifreeze	Parts Water
- 12°C	1	3
- 20°C	1	2
- 37°C	1	1

Quality Classification:

RAVENOL TTC Concentrate Protect C11 is tried and tested for aggregates specifying:

Recommendations: VW TL 774-C (acc. to G11); MAN 324NF; AFNOR R15-601 (France); BS 6580 (GB); CUNA NC 956-16 (Italy); JIS K 2234 (Japan); O Norm V 5123 (Austria); UNE 25-361 (Spain); ASTM D 1384; ASTM D 2570; ASTM D 2809; ASTM D 3306 Type 1; ASTM D 4985; ASTM D 6210 Type 1-FF; SAE J1034; CHRYSLER MS 7170; FIAT 9.55523, FIAT PARAFLU 11; FORD WSS-M97B51-A1; IVECO 18-1830; Suzuki. Please follow manufacturer's recommendations.

Technical Characteristics:

RAVENOL TTC Concentrate Protect C11 offers:

- Excellent for light metal engines
- Good reserve alkalinity
- High-quality corrosion additives for optimal corrosion protection
- Elastomer compatible with elastomers used in automotive radiators

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Technical Values:

Characteristics	Unit	Data	Test according to
Density at 20°C	kg/m ³	1130,0	EN ISO 12185
Colour		yellow-green fluorescent	visual
Flash point	°C	112	DIN 51 758
Boiling point	°C	155	ASTM D1120
pH value at 20°C (50 Vol%)		8,4	ASTM D1287
Reserve alkalinity	ml 0,1n HCl	>20	ASTM D1121
Water content	%wt.	<5	ASTM D1123
Freezing point (50% solution)	°C	-37	ASTM D1177

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