# PRODUCT INFORMATION



## **HIGHTEC ANTIFREEZE COOLANT AN 12++**

Premium long service life coolant concentrate of the current generation based on monoethylene glycol with high corrosion protection and frost protection. Nitrite-free, amino-free, phosphate-free.

## **Description**

HIGHTEC ANTIFREEZE COOLANT AN 12++ is a premium long service life coolant concentrate with high corrosion protection and frost protection of the current generation based on monoethylene glycol. It does not contain any nitrite, amine, phosphate and therefore provides reliable protection for aluminium engines and cast iron engines.

### **Application**

HIGHTEC ANTIFREEZE COOLANT AN 12++ has been developed specifically to meet the latest requirements applicable to aluminium and cast iron engines. It reliably protects against deposits and foam formation and thus ensures optimal heat dissipation. It is used in many internal combustion engines according to the manufacturer's specification.

## Equivalent quality in accordance with EU-law as per

- ASTM D3306
- AFNOR NF R 15-601
- BS 6580
- SAE J1034
- Deutz DQC CC-14
- MAN 324 Si-OAT
- MB 325.5/325.6
- Scania TB 1451
- VW TL 774-G (G12++)

# This product is also recommended when the following filling instructions are required

• JIS K 2234

#### **Advantages**

- It meets the current VW specification VW TL 774-G (G12++)
- It is backward compatible with the former VW specifications G12+, G12 and G11 (TL 774 C-F)
- · Available for use in cast iron and aluminium engines
- · Prevention of deposits in a reliable manner
- Very good and permanent corrosion protection
- Unsurpassed protection against cavitation
- Minimal tendency to foam
- Miscible and compatible with other antifreeze concentrates of the same specification. However, in order to exploit the full product benefits of HIGHTEC ANTIFREEZE COOLANT AN 12++, a complete coolant change is recommended.

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### Mixing table

Frost protection up to [°C / °F]	ANTIFREEZE COOLANT	H2O
-37 / -35	1	1
-27 / -17	1	1,5
-20 / -4	1	2
Siedepunkt / Boiling Point [°C / °F]	ANTIFREEZE COOLANT	H2O
105 / 221	1	1
102 / 216	1	1,5
102 / 216	1	2

### **Typical characteristics**

Property	Method	Unit	Value
Color		visual	magenta
Boiling point	ASTM D 1120	°C	> 163
рН	ASTM D1287	-	8,6
Reserve alkalinity	ASTM D1121	ml 0,1 M HCl/10ml	≈ 6
Freezing point 1:1 AF:Water	ASTM D1177	°C / °F	-37 / -34,6
Density at 20 °C	ASTM D5931	g/cm <sup>3</sup>	1.12

These characteristics are typical for current production. The data does not constitute an assurance of properties or a guarantee of suitability for a specific application. Existing legal provisions and regulations that affect handling and usage of the products must be observed by the recipient of our products. ROWE products are continuously being developed. For this reason, ROWE retains the right to change all technical data in this product information at any time without prior announcement. Our current General Delivery and Payment Conditions apply (www.rowe-oil.com).

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