PRODUCT INFORMATION

HIGHTEC ANTIFREEZE AN 13

Premium, long-lasting antifreeze concentrate of the latest generation based on monoethylene glycol and glycerol. Free of nitrite, amine and phosphate. Reliable protection of aluminium and cast iron engines.

Description

HIGHTEC ANTIFREEZE AN 13 is a premium, long-lasting antifreeze concentrate of the latest generation based on monoethylene glycol and glycerol. The proportion of glycerol used, which is based on raw materials, reduces CO2 emissions by approximately 11% during production. HIGHTEC ANTIFREEZE AN 13 is free of nitrite, amine and phosphate and thus also plays a role in protecting the environment.

Application

HIGHTEC ANTIFREEZE AN 13 has been developed specifically to meet the latest Volkswagen G13 antifreeze specification (TL 744-J). It is backward compatible with the former G12++/ G12+ (TL 774-G/-F) specifications and reliably protects aluminium and cast iron engines against deposits and foam formation while ensuring optimal heat dissipation.

The quality of this product is equivalent to EU regulations

- ASTM D3306/D4985
- SAE J1034
- BS 6580
- VW TL 774-J (G13)

Additionally this product is recommended when the following filling instructions are required

- JIS K 2234

Benefits

- It meets the latest VW specification TL 774-J (G13)
- It is backward compatible with the former VW specifications G12++ and G12+ (TL 774-G/-F)
- Available for use in cast iron and aluminium engines
- Reduction in CO2 emissions by approximately 11% during production
- Free of nitrites, amines and phosphates, thus also playing a role in protecting the environment
- 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 AN 13, a complete coolant change is recommended.

Notices

The antifreeze protection can only be determined with special ‘G13’ refractometers due to the proportion of glycerol used. The use of standard refractometers leads to incorrect measurement results.

Mixing Table

Frost protection up to [°C / °F]	ANTIFREEZE	H2O
-36 / -33	1	1
-24 / -11	1	1,5
-17 / 1	1	2

Typical characteristics

Property	Method	Unit	Value
Density at 20 °C	ASTM D1122	g/ml	1.143
Color	visuell	-	magenta
Kinematic viscosity KV 20	ASTM D-7042	mm^2/s	25
Boiling point	ASTM D 1120	°C	> 170
pH	ASTM D1287	-	8,6
Freezing point 1:1 AF:Water	ASTM D1177	°C / °F	-36 / -32,8

The characteristics shown are typical of current production. This data cannot be constructed as a legally binding warranty or guaranty of certain product properties or of the suitability of the product for a specific application. ROWE products are continually improved. Therefore ROWE reserves the right to change all the technical data in this product information at any time without notice. All sales and deliveries shall be subject to our current General Terms and Conditions of Sale and Terms (www.rowe-oil.com).

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