

PRODUCT INFORMATION

PRODUCT NAME VASOIL ANTIFREEZE VG 12 + CON

DESCRIPTION VASOIL ANTIFREEZE VG12 + CON is long life engine coolant concentrate (antifreeze) based on monoethylene glycol, containing no nitrites, amines, phosphates, borax, silicates and no other mineral additives, suitable for both petrol and diesel engines. The inhibitor package has been developed based upon latest organic acid technology to give long-term protection for all the metals presents in the modern engines, especially, aluminium and brass.

PRODUCT USE

VASOIL ANTIFREEZE VG12 + CON, protects cooling systems of automotive and industrial gasoline and diesel engines and give the following properties in aqueous mixtures:

1. Increased life time up to 250,000 kms for passenger cars and 500,000km in commercial vehicles or (5 years), allowing less frequent maintenance, thanks to the corrosion inhibitors which are little consumed in the time.
2. Thermal characteristics that permit effective engine cooling without boiling.
3. Elimination of deposit problems caused by the use of hard water.
4. Elimination of abrasives solids, which gives a better protection of the joints of the water pump.
5. Improved anticorrosion protection of all metals and alloys used in the cooling system of modern vehicles, more over the aluminium.
6. Protection against frost, depending on the concentration chosen.
7. Excellent antifoaming characteristics.
8. Meets most European and International Standards.

The freezing point of the new antifreeze adjusts as follows in aqueous solutions :

Concentration % by volume	33.3	40	50
Freezing Point, °C	-20	-25	-40

SPECIFICATIONS

ANTIFREEZE VG12+CON, complies with the following quality standards and OEM specifications:

• ASTM D3306 (USA)	• AFNOR NF R15-601 (France)	GM 1899 M, US 6277 M
• ASTM D4656 (USA)	• FFV Heft R443 tests (Germany)	OPEL GM QL130100
• SAE J 1034 (USA)	OEM SPECIFICATIONS	Mercedes MB 325.3
• BS 6580 (UK)	FORD WSS-M97B44-D	Renault 41-01-001 - D
• NATO S 759	FORD ESE &ESD M97B49-A	VOLKSWAGEN TL774 D&F (G 12)
• AS 2108 (Australia)	Leyland Trucks LTS 22 AF 10	GENERAL MOTORS GM 6277M
• UNE 26-361 (Spain)	Chrysler MS 9176	MAN 324 (SNF) & B&W D 36 5600
• AS 2108 (Australia)	Cummins CES 14603	John Deere H 24 B1 & C1

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CHARACTERISTICS (TYPICAL PROPERTIES)

<i>VASOIL ANTIFREEZE VG 12 + CON</i>	<i>ASTM</i>	
<i>Density at 20 °C, g/ml</i>	<i>D-4052</i>	<i>1.119</i>
<i>Freezing Point (50% vol in Water)</i>	<i>D- 1177</i>	<i>-38 °C</i>
<i>Boiling Point, °C</i>	<i>D-1120</i>	<i>172°C</i>
<i>PH (50% vol in Water)</i>	<i>D-1287</i>	<i>8.9</i>
<i>Reserve Alkalinity (ml HCl N/10)</i>	<i>D-1121</i>	<i>6.2 ml</i>
<i>Water Content</i>	<i>D- 1123</i>	<i>2.8%</i>
<i>Foaming Characteristics at 88 °C</i>	<i>D- 1881</i>	
<i>Height</i>		<i>35 ml</i>
<i>Breaktime</i>		<i>1.5 seconds</i>