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TECHNICAL PRODUCT SHEET

RADIATOR LL (G13)

DESCRIPTION

RADIATOR LL (G13) is an ultra-high performance extended life antifreeze fluid, based on mono-ethylene glycol (MEG) hybrid technology of organic and inorganic (silicates) inhibitors. It provides long-lasting engine protection against freezing, boiling and corrosion, protecting all metals (including aluminum and ferrous alloys) thanks to its high-performance additives. Completely free of nitriles, amines, borates and phosphate salts, it is an environmentally friendly product, fully compatible with the materials found in engine seals and flanges, but also with almost all VW G12++, G12+, G12 and G11 level MEG antifreeze base fluids

APPLICATIONS

RADIATOR LL (G13) meets the requirements of the VW Group TL 774J (G13) specification where required by the manufacturer. The product should be diluted, preferably with distilled or deionised water. To achieve the minimum corrosion protection possible, dilution to at least 33% w/w is required. Maximum protection against freezing (-69°C) is achieved at a dilution rate of 68% w/w. Dilutions of less than 33% or more than 70% w/w are not recommended.

Not to be used in drinking water systems.

SPECIFICATIONS

BS 6580
VW Group TL-774J (G13)
P/N: VW G 013 A8J M1
MB 000 989 28 25

ASTM D3306
PORSCHE 000 043 301 47
MB 000 989 28 25 11
Compatible: G12++, G12+, G12, G11

PROPERTIES

RADIATOR LL (G13) is a high-performance, long-life coolant engineered to protect modern engines and maximize reliability. Its advanced formula shields aluminum and ferrous alloys from corrosion, enhances heat transfer for optimal efficiency, prevents cavitation damage, and works seamlessly with G12++, G12+, G12, and G11—delivering clean, sustainable, maintenance-friendly performance.

APPLICATION TABLE

Antifreeze, % vol.	Protection down to...
35%	-20
53%	-40
58%	-50
68%	-69

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PHYSICAL-CHEMICAL CHARACTERISTICS

RADIATOR LL (G13)	METHOD	
Density at 20°C, g/cm^3	ASTM D5931	1.132
pH (33% v/v. solution)	ASTM D1287	8.5
Boiling point, °C	ASTM D1120	170
Color		Magenta

The abovementioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.