

KRAMP ANTIFREEZE K12+

Violet colored universal coolant, free of nitrite, phosphate and silicate. Concentrate

Description

KRAMP ANTIFREEZE K12+ is a violet colored, silicone-free coolant for dilution in water. It protects against corrosion and cavitation and also prevents deposits and foaming. **KRAMP ANTIFREEZE K12+** exceeds the requirements of most manufacturers as well as - international standards. The product does not cause damage to seals and hoses. **KRAMP AN-TIFREEZE K12+** is suitable for change intervals of up to 8 years. It is compatible with all silicone-free branded anti-freeze agent and products with MB 325.0 approval.

Application

KRAMP ANTIFREEZE K12+ has been specially developed for modern watercooled internal combustion engines, also suitable for aluminium engines. Before adding **KRAMP ANTI-FREEZE K12+** to the cooling circuit, it should be mixed with water to a concentration of 30 to 50 vol. %. For the preparation of the anti-freeze solution, use only clean water that is not too hard. The analytical values of the water must not exceed the following limit values:

Water hardness: 0-20° dH (0-3.6 mmol/l) Chloride concentration: max. 100 ppm Sulphate concentration: max. 100 ppm

Product data

Properties	Unit	Value*
Density 20 °C	g/cm³	1,113
Boiling point	°C	170

* are average values and may vary in the framework of the standard.

Performance

AS 2108-2004 ASTM D2870 ASTM D4340 MB 325.3 MAN 324 Typ SNF PN-C-40007 GM 6277M ÖNORM V 5123 ASTM D1384 ASTM D3306 BS 6580 SAE J 1034 JIS K 2234 Ford WSS-M97B44-D GMW3420 VW TL 774 Typ D/F (K 12+)

Mixing table

Anti-freeze agent	Water	Frost protection to
1	2	Min18°C
2	3	Min25°C
1	1	Max37°C

Status november 2019