

EVOX Extra concentrate

coolant concentrate



EVOX Extra concentrate is a monoethylene-glycol based, dark blue colored coolant concentrate, produced with silicate and organic additive technology (OAT). It is free from nitrites, amines, phosphates and borates and is suitable for filling the cooling systems of internal combustion engines. It can be also used in Hybrids and indirect cooling systems of Battery Electric Vehicles (BEV).

EVOX Extra concentrate is compatible with most ethylene-glycol based engine coolants, however exclusive use is recommended for optimum corrosion protection and inhibitor stability.

EVOX Extra concentrate antifreeze coolant must be diluted with water prior to use. It is compatible with hard water, and can be mixed even with tap water* with a suitable mixing ratio, so that the solution has a concentration of 35-50 % (V/V). It cannot be used without being diluted!

For optimal performance use of deionised or distilled water is recommended.

* Use clean, not too hard water for preparing the coolant liquid. Do not use mining effluents, sea water, saline water, semi-saline water or industrial waste water.

Make sure that the water parameters do not exceed the following limit values:

Water hardness: 0-20°nK (0-3.6 mmol/l)

Chloride content: max. 100 ppm

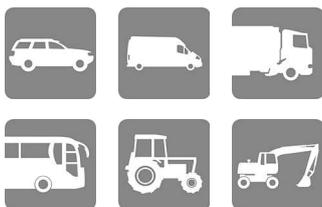
Sulphate content: max. 100 ppm

If the water parameters exceed these values, then treat the water with an appropriate method, for example by adding clean distilled or deionised water to it, so that the chloride and/or sulphate levels are reduced to below the specified limit values.

Dilution data:

Conc. (%)	Water (%)	Freeze protection
33	67	-18
40	60	-24
50	50	-36
67	33	-60

Application



Cooling systems of passenger and commercial vehicles, agricultural and construction machines and stationary gas engines

Cooling systems containing cast iron, aluminium and copper parts

Features and benefits

Good corrosion protection

Forms a stable protective film on the inner surface of the cooling system to ensure a long lifetime

Application specific composition

Protection against cavitation and sludge sedimentation

Compatible with construction materials

There's no damage to the plastic and rubber parts of the cooling system

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Specifications and approvals

BS 6580:2010
ASTM D 3306
AFNOR R-15-601
VW/Audi/Seat/Skoda G11 (TL 774-C)
DTFR 29C120 (ex MB 325.5)
Ford ESD-M97B49-A
MAN 324 Typ NF
MAN 324 Typ Si-OAT
MTU MTL 5048
MWM 0199-99-2091/12
Iveco 18-1830
Case JIC-501
Deutz DQC CA-14
Cummins 85T8-2
MAN 324NF
Volvo Construction 128 6083/002
Volvo Trucks 128 6083/002

Properties

Properties	Typical values
Appearance	bright, clear liquid
Colour	dark blue
Density at 15°C [g/cm ³]	1,120
Corrosion test in glassware [mg]	
- cast aluminium [mg]	0
- cast iron [mg]	1
- copper [mg]	0
- brass [mg]	0
- steel [mg]	0
- solder [mg]	0
pH value	8.5
Reserve alkalinity, M/10 HCl [ml]	9.1
Water content (Karl Fischer) [mass %]	5
Refractive index at 20 °C	1.432
Boiling point [°C]	min. 163
Freezing point (1:1 distilled water) [°C]	max. -36
Hamutartalom (autochemic) [mass %]	max. 5

The characteristics in table are typical values of the product and do not constitute a specification.

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Storage and handling instructions

Should be stored in its original packaging with airproof sealing, separately from foods, in a place protected against water and sunshine, locked away from children.

In the original container under the recommended storage conditions: 48 months

Recommended storage temperature: -13°C - +35°C