



Antifreeze X 12 Plus (yellow)

Radiator protection, coolant additive concentrate Colour: yellow

Description:

Antifreeze X 12 Plus (yellow) is a concentrate based on 1.2-ethanediol (mono-ethylene glycol), radiator protection and heat exchanger agent for operation both, summer and winter with permanent frost and rust protection (for all-season use).

Antifreeze X 12 Plus (yellow) has been developed with high quality corrosion additives for motor and cooling system, and meets the current standard in the development of engine-building.

Antifreeze X 12 Plus (yellow) is free of nitrites, amines, phosphates and silicate.

Properties:

- Longer and outstanding corrosion protection
- Improved heat transfer
- Decreased right to compensation regarding repairs at the cooling system
- Suitable for mixed fleets, one product for cars, trucks and construction machinery
- Ecologically desirable because of longer working life
- Avoidance of foaming
- Compatibility with hose and sealing materials
- Compatibility with varnishes

Application:

Antifreeze X 12 Plus (yellow) is excellently suitable for motors being made of cast iron, aluminium or of a combination of both the metals and at cooling systems being made of aluminium or copper alloyage.

Antifreeze X 12 Plus (yellow) is especially recommended for light run motors where a special aluminium protection at higher temperatures is required.

Recommended working concentration 50 % **Antifreeze X 12 Plus (yellow)** and 50% water, radiator protection up to -37 °C can be achieved. Antifreeze protection down to -68°C is possible with a maximum of 69% **Antifreeze X 12 Plus (yellow)** and 31% water.

Use-duration:

Commercial vehicles to 500.000 km (ca. 8.000 hours)

Passenger cars to 250.000 km (ca. 2.000 hours)

Stationary engines to 32.000 hours (or 5 years)

It is recommended, the coolant of radiators, to change all 5 years at the earliest, or if necessary with the achievement of the named stand-times.

Suitable for/ we recommend this product for:

We recommend this product for:	
AFNOR	NF R15-601 Type 1
AS	2108-2004
ASTM	D 3306 Type I
ASTM	D 4985
BS	6580 : 2010
CUMMINS	85T8-2, 90T8-4
CUMMINS	CES 14603
IVECO	> 01/2014
JENBACHER	TA 1000-0201
OHN DEERE	JDM H5
LEYLAND TRUCKS	LTS 22 AF 10
LIEBHERR	MD1-36-130
MACK	EC1 (A4.05.09.01)
MAN	324 SNF (when using with black coolant hoses, not for silicone coolant hoses - coloured blue)

Data are subject to change.

Attention: Service instructions should be observed!

KC/WI/-
08/2021

MAN	B&W D 36 5600
MB	325.3
MTU	MTL 5048
ÖNORM	V 5123
RENAULT TRUCK	Type D
SAE	J 1034
SCANIA	TB 1451
SETRA	MB 325.3
VOLVO	VCS

Miscibility:

- **Antifreeze X 12 Plus (yellow)** can be mixed with the most of the coolants based on ethylene glycol. To achieve an optimal corrosion protection and to avoid sludge formation it is recommended to use pure **Antifreeze X 12 Plus (yellow)**. For the preparation of mixtures softened water should be preferred.

Antifreeze X 12 Plus (yellow)		
Article No.	Packaging unit	
510 425	Can	20 L
510 426	Drum	60 L
510 428	Drum	200 L
510 429	PE-Container	1000 L

Typical characteristics:		
Specific weight at 20°C	kg/m ³	1.100 - 1.140
Boiling point	°C	> 175
pH-value	(50 Vol.%)	8,5
Water content	%	3,7
Pour point antifreeze/water=1:1	°C	-37
Reserve alkalinity		> 5,0
Colour		yellow

