

## ASTRON Antifreeze A 12 red

### Radiator antifreeze, red

#### Properties

**ASTRON Antifreeze A 12** is a radiator corrosion inhibitor and anti-freeze agent based on ethylene glycol. It is free of any potentially hazardous substances such as nitrites, amines and phosphates. Thanks to the optimised combination of highly stable inhibitors based on silicate-free carboxylic acid technology, **ASTRON Antifreeze A 12** offers excellent protection against corrosion and cavitation and prolongs the coolant change interval. Other additives prevent deposits and foaming of the coolant. **ASTRON Antifreeze A 12** offers year-round protection against frost and corrosion during the entire service life of the engine. The product does not have any negative effect on coolant hoses or cylinder head gaskets.

#### Use instructions

**ASTRON Antifreeze A 12**, mixed with the correct amount of water, can be used without any restrictions as a thermal transfer fluid in internal combustion engines made in cast iron, aluminium or a combination of these two metals, and radiator systems made in aluminium or copper alloys.

**ASTRON Antifreeze A 12** is particularly recommended for light-alloy engines where the aluminium must be protected against the effect of increased temperatures. We recommend maintaining a concentration of 50% (v/v) during all seasons.

**ASTRON Antifreeze A 12** can be mixed with most coolants based on ethylene glycol.

**Observe manufacturer instructions!**

#### Specifications:

- AS 2108-2004
- ASTM D 3306, ASTM D 4985
- AFNOR NF R15-601
- BS 6580:2010
- SAE J 1034

#### Recommendations\*:

- DTFR 29C110 (325.3)
- MAN 324 SNF
- VW TL 774 D
- Ford WSS-M97B44-D
- Opel GM 6277M
- Opel GM 3420
- MTU MTL 5048
- John Deere JDM H5
- Audi/Seat/Skoda TL 774-D/F (FA 12/12+)
- Renault Trucks 41-01-001/-S Type D
- Fiat MAT 3624
- Jenbacher TA 1000-0201
- MAK A4.05.09.01
- Mack 014 GS 17009
- Cummins IS series u N14/CES14603/ CES14439
- Mazda MEZ MN 121 D
- Komatsu 07.892 (2009)
- Liebherr MD1-36-130
- Deutz DQC CB-14
- Caterpillar/MWM 0199-99-02091/11 Case New Holland MAT3624
- DAF 74002

Proportion ASTRON Antifreeze A 12	Proportion of water	Frost resistance until:
1	2	-18°C
1	1,5	-24°C
1	1	-36°C

TYPICAL PARAMETERS	METHODS	UNITS	ASTRON Antifreeze A 12
Density at 20°C	ASTM D 4052	g/cm <sup>3</sup>	1.11
Reserve alkalinity (pH 5.5)	ASTM D 1121	ml 0.1 n HCl	6,2
Boiling point	ASTM D 1120	°C	>170
pH value	ASTM D 1287	-	7,5-9
Flash point	DIN EN ISO 2592	°C	>111
Antifreeze at 50 vol.%	ASTM D 1177	°C	- 36
Colour	-	-	red

\* meets the requirements of the OEM manufacturer.  
 The stated values may vary within the usual commercial range.

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**Power in every molecule**

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