



EVO X 12++

Radiator protection, Si-OAT-coolant additive concentrate (Colour: pink/violet)

Description:

EVO X 12++ is a full concentrate radiator guard and heat transfer medium based on ethylene glycol with a silicon additive package for both summer and winter operation that gives maintenance-free protection against frost, overheating and rust formation (long-life radiator protection).

EVO X 12++ is a new modern cooler protection and heat transfer medium with high-quality anti-corrosion additives for engine and cooling system. It corresponds to the current requirements of numerous OEMs and is superbly enhanced by organic and silicate technologies (Si-OAT-coolant).

EVO X 12++ is free from borate, nitrite, amine and phosphates.

At the correct concentration of radiator antifreeze, vehicle tests have shown that an effective corrosion protection for passenger cars of 250,000 km and for commercial vehicles of 500,000 km can be achieved. It is recommended to change the antifreeze after reaching the mileage or after 5 years.

Characteristics:

- Longlife radiator protection
- Improved heat transfer
- Forms a constant, homogenous protective coating
- Silicate stabilised, i.e. no gel formation or flocculation
- Suitable for mixed fleets: product for cars, trucks and construction machinery
- Kind to the environment due to an extended life cycle
- Avoidance of foaming
- Compatibility with hose and sealing materials
- Compatibility with varnishes

Usage:

EVO X 12++ is outstanding for engines made of cast iron, aluminium or a combination of both metals. It can also be used in cooling systems made from aluminium or copper.

EVO X 12++ is particularly recommended for light metal engines which demand special aluminium protection at higher temperatures.

Recommended concentration for use 50% **EVO X 12++** and 50% water which gives a frost protection of -37°C. Frost protection of up to -68°C is possible with maximum 69% **EVO X 12++** and 31% water.

Usable for:

| | |
|--------------------------------|---------------|
| We recommend this product for: | AFNOR |
| NF-R 15-601 Type 1 | AS |
| 2108 : 2004 | ASTM |
| D 3306 Type I | ASTM |
| AUDI | |
| BENTLEY | |
| BS | 6580 |
| BUGATTI | |
| CHINA GB | 29743-2013 |
| CUMMINS | CES 14603 |
| CUNA | NC 956-16 |
| JIS | K 2234 : 2006 |
| LAMBORGHINI | |
| MAN | 324 Si-OAT |
| MB | 325.5, 325.6 |
| MTU | MTL 5048 |

Data are subject to change.

Attention: Service instructions should be observed!

STL/WINTER/
09/2016

| | |
|---------|----------------------------|
| NATO | S 759 |
| PORSCHE | |
| SAE | J 1034 |
| SANS | 1251 : 2005, SH 0521 -1999 |
| SCANIA | TB 1451 |
| SEAT | |
| SKODA | |
| UNE | 26361-88 |
| VW | TL 774 G (G12++) |

Miscibility:

- **EVO X 12++** is miscible with most coolants based on ethylene glycol. To achieve an optimal corrosion protection and to avoid sludge formation it is recommended to use pure **EVO X 12++**. For the preparation of mixtures softened water should be preferred.
We recommend to drain the cooling system and to flush it with clean water before use.

| EVO X 12++ | | |
|--------------------|-----------------------|---------|
| Article No. | Packaging unit | |
| 3100 392 | Can | 1 L |
| 3100 393 | Can | 1500 ml |
| 3100 394 | Can | 5 L |
| 3100 395 | Can | 20 L |
| 3100 396 | Drum | 60 L |
| 3100 398 | Drum | 200 L |
| 3100 399 | PE-Container | 1000 L |

| Typical characteristics: | | |
|---------------------------------|-------------------|---------------|
| Specific weight at 15°C | kg/m ³ | 1,110-1,145 |
| Boiling point | °C | >167 |
| ph-value | (50 vol.) | 8,4 |
| Water content | % | max. 4 |
| Pour point antifreeze/water=1:1 | °C | -37 |
| Pour point antifreeze/water=1:2 | °C | -19 |
| Reserve alkalinity | | 9,0 |
| Colour | | pink (violet) |

