



# EGX Antifreeze/Coolant

## High performance OAT-based coolant

### Product description

EGX Antifreeze/Coolant is a concentrate and premixed premium coolant, designed to provide year-round frost protection and good corrosion, and boil protection in the most extreme conditions in passenger car and heavy-duty applications.

EGX Antifreeze/Coolant is formulated with Organic Additive Technology (OAT), and is available as a concentrate and in premixed concentrations of 50/50, 40/60 and 55/45. EGX Antifreeze/Coolant is free of 2-EHA, nitrite and borate.

### Customer benefits

- Advanced heat transfer performance throughout fluid lifetime
- Good oxidation and pH stability even at high temperatures to help control deposits and limit acidic glycol degradation product formation
- Long life OAT-backed performance with virtually non-depleting organic corrosion inhibitors
- Neutralisation package helps prevent the formation of gels or deposits in the cooling system

### Product highlights

- **Advanced heat transfer performance**
- **Long life OAT-backed performance**
- **Good high temperature oxidation and pH stability**
- **Neutralisation package helps prevent gels or deposits**

#### Selected performance standards include:

ASTM	Case New Holland
Claas	Detroit Diesel
Deutz	Jaguar Land Rover
Jenbacher	John Deere Power Systems
Perkins	UD Trucks
UNE	Voith
Volvo	

### Applications

EGX Antifreeze/Coolant can be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems comprising aluminium or copper alloys. It is particularly recommended for modern engine designs, where high temperature aluminium protection is important.

EGX Antifreeze/Coolant is suitable for use in Battery Electric Vehicles in passenger car and heavy-duty applications where there is no requirement for low electrical conductivity.

EGX Antifreeze/Coolant is compatible with a wide range of materials, including (but not limited to) the following:

- Elastomers - EPDM, HNBR, NBR, FKM, Silicone (ensure that the material type/grade is appropriate for the operating temperature)
- Plastics - PP, PA, PTFE, PPS
- Metals - Iron, Steel, Copper, Aluminium

### Approvals, performance and suitable for use

#### Approvals

- Deutz DQC CB-14

#### Performance

- ASTM D3306
- ASTM D6210
- UNE 26-361-88/1
- Case New Holland MAT 3624
- Claas
- Detroit Diesel DFS 93K217
- Jaguar Land Rover STJLR.03.5212
- Jenbacher TA 1000-0200
- John Deere Power Systems
- Perkins
- Renault Trucks STD 418-0007 (RTCS-2)
- UD Trucks
- Voith
- Volvo STD 418-0007 (VCS-2)

#### Suitable for use

- Abarth
- Alfa Romeo
- Alstom

- Aston Martin
- Case New Holland MAT 3724
- Chevrolet GMW 3420
- DAF/Leyland Trucks 74002
- Daimler Buses (EvoBus)
- Dodge
- Fiat 9,55523
- Ford WSS-M97B44-D
- Freightliner
- Hitachi
- Isuzu
- Jeep
- Kobelco
- Komatsu 07.892 (2017)
- Mahle Behr
- Maserati
- Mercedes-Benz Trucks MB 325.3 (DTFR 29C110)  
MB 326.3 (DTFR 29D110)
- Mitsubishi Heavy Industry
- Opel/Vauxhall GMW 3420
- Santana Motors
- Thermo King
- Vestas Wind Systems
- Volkswagen/Audi/SEAT/Škoda  
TL-774 D (known as G12)  
TL-774 F (known as G12+)
- Yanmar
- ZF

### Instructions for use

EGX Antifreeze/Coolant – Concentrate should be diluted before use; it is recommended to use deionized or distilled water for this purpose. It is recommended to use at least 33 vol% of EGX Antifreeze/Coolant – Concentrate in the coolant mixture (this provides an initial freezing point of -18°C). Mixtures of more than 70 vol% EGX Antifreeze/Coolant – Concentrate with water are not recommended (concentrations higher than this can lead to a reduction in freeze protection).

EGX Antifreeze/Coolant – Premixed should be used as purchased. No dilution is recommended.

EGX Antifreeze/Coolant is compatible with Havoline XLC Antifreeze/Coolant and Delo XLC Antifreeze/Coolant, and with most other coolants based on ethylene glycol. For optimum performance, exclusive use of EGX Antifreeze/Coolant is recommended.

## Product maintenance and handling

EGX Antifreeze/Coolant can be stored for at least 8 years in unopened containers without any effect on the product quality for performance.

EGX Antifreeze/Coolant should be stored above -20 °C and preferably at ambient temperatures. Periods of exposure to temperatures above 35 °C should be minimized.

It is strongly advised not to expose EGX Antifreeze/Coolant to direct sunlight when stored in translucent packages, as this can result in fading of the colour or discoloration over time. This process may be accelerated if it is coupled with high ambient temperatures.

As with any antifreeze coolant, the use of galvanised steel is not recommended for pipes or any other part of the storage/mixing installation (the copper inhibitor may react with the zinc from the galvanized parts, reducing its effectiveness in protecting red and yellow metals).

Avoid any spillage of used and unused product to the environment.

Product residue and package/container should be disposed of in dedicated collection points.

### Typical test data

Test	Test Methods	Results			
Dilution		40/60	50/50	55/45	Concentrate
<b>Shelf Life: 36 months from date of filling indicated on the product label.</b>					
Colour	Visual	Orange	Orange	Orange	Orange
Density at 20°C, kg/L	ASTM D5931	1.059 typ.	1.073 typ.	1.080 typ.	1.124 typ
Initial crystallization, °C	ASTM D1177	< -24	< -36.4	< -40	-
Equilibrium boiling point, °C	ASTM D1120	108 min.	108 min.	108 min.	180 max
pH at 20 °C	ASTM D1287	8.2 - 8.7	8.2 - 8.7	8.2 - 8.7	8.6 typ

### Corrosion Test for Engine Coolants in Glassware (ASTM D1384)

33vol% dilution

Weight loss, mg/coupon <sup>(1)</sup>

	ASTM D3306	EGX Antifreeze/Coolant
Copper	10 max	1
Solder	30 max	3
Brass	10 max	0
Steel	10 max	1
Cast iron	10 max	0
Aluminium	30 max	5

### Cavitation-Erosion Test (ASTM D2809)

17vol% dilution

Weight loss, mg/coupon <sup>(1)</sup>

	ASTM D3306 requirement	EGX Antifreeze/Coolant
Rating for pitting, cavitation, and erosion of the water pump mg/cm <sup>2</sup> /week	8 min	9

### Oxidation Stability in a Rotating Pressure Vessel (620 kPa air, 150°C) (ASTM D7820)

ppm

	Reference coolant requirement	EGX Antifreeze/Coolant
Glycolate	4777	2835
Formate	683	595
Oxalate	70	18
Total	5530	3448

### Simulated Service Test (ASTM D2570)

44vol% dilution

Weight loss, mg/coupon <sup>(1)</sup>

	ASTM D3306	EGX Antifreeze/Coolant
Copper	20 max	7
Solder	60 max	6
Brass	20 max	8
Steel	20 max	2
Cast iron	20 max	0
Aluminium	60 max	2

### Corrosion of Cast Aluminium Alloys at Heat-Rejecting Surfaces (ASTM D4340)

25vol% dilution

Weight loss, mg/coupon <sup>(1)</sup>

	ASTM D3306 requirement	EGX Antifreeze/Coolant
Weight loss,	1.0 max	0.44
pH after test	(Report)	8.1

**Disclaimer:** Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see <http://europe.chevronlubricants.com>.

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