



# ENEOS X HYPER COOL XB

## Si-OAT technology coolant with advanced performance features

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**ENEOS X Hyper Cool XB** incorporating X technology from Japan for cooling systems, is the next-generation Si-OAT coolant with phosphate, offering exceptional compatibility with CAB (Controlled Atmosphere Brazing) brazed materials and stability to hard water and oxidation. This ethylene glycol-based, multifunctional coolant integrates cutting-edge silicate inhibitor technology with Organic Acid Technology (OAT), making it suitable for mixed fleets, including Internal Combustion Engines (ICE) and Battery Electric Vehicles (BEV). Recommended for BMW and Volkswagen models, it ensures optimal cooling system protection.

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### SPECIAL FEATURES

#### 1. Simplified Coolant Solution

Superseding both former Si-OAT coolants and hybrid Si-OAT formulations containing borate, molybdate, and nitrate, streamlining inventory management.

#### 2. Enhanced System Compatibility

Compatible with a wide range of common construction materials, including metals, alloys, rubbers, and engineering thermoplastics, as well as other coolants like previous Si-OAT generations.

#### 3. Advanced Performance Features

Offering superior thermal oxidative stability, Controlled Atmosphere Brazing (CAB) flux compatibility, state-of-the-art silicate stabilization, outstanding aluminum passivation, and excellent hard water stability.

#### 4. Eco-Friendly and Health-Conscious

Reducing waste through extended drain intervals and minimized material replacement, while its formulation is free from nitrites, borates, amines, and 2-ethylhexanoic acid.

### APPLICATION

ENEOS X Hyper Coolant XB is suitable for a broad range of drivetrains, specifically designed for modern Internal Combustion Engines (ICE), hybrids, and the indirect cooling systems of Battery Electric Vehicles (BEV).

### TYPICAL MIXING RATIO

ENEOS X Hyper Cool XB coolant provides long-life frost and corrosion protection. To ensure good corrosion protection, it is recommended to use at least 35 vol.% of ENEOS X Hyper Cool XB in the coolant solution. Mixtures with more than 70 vol.% of ENEOS X Hyper Cool XB in water are not

recommended.

For optimal performance and controlled quality, we recommend the use of deionised or distilled water to prepare the ready-to-use dilutions although lab testing has shown that acceptable corrosion results are still obtained with water of 20°dH, containing up to 500 ppm chlorides or 500 ppm sulphates.

Vol. % in water	40	50
Freezing Protection °C	-26	-37

## PACK SIZES

1L, 5L, 60L & 200L

## TYPICAL PROPERTIES

Parameters	Fully Concentrate 100%	35% Pre-mixed	50% Pre-mixed
Colour	Blue		
Density @ 20°C, kg/l,	1.120 (ASTM D1122)	1.051 (ASTM D1121)	1.071 (ASTM D1121)
Freezing Protection ASTM D1177	report	-19.9 °C	-36.4 °C
pH ((20°C) ASTM D1287	8.5	8.1	8.3
Boiling Point, °C ASTM D1120	163 °C	106 °C	108 °C
Reserve Alkalinity (pH 5.5) ASTM D1121	5	report	report

Note: The typical properties may be changed without notice. (November 2024)

## RECOMMENDATIONS & SPECIFICATIONS

- BMW LC 87, LC 97, LC 18
- Alfa Romeo, Fiat, Lancia 9.55523
- Chrysler MS 7170
- Opel / Vauxhall GME L1301
- VW G12 EVO (TL 774-L)
- VW G13, G12++, G12+, G12, G11
- MAN 324NF, MAN 324 Si-OAT
- MWM 0199-99-2091/12
- Iveco standard 18-1830
- Cummins 85T8-2
- DTFR 29C120 (former MB325.5)
- Deutz DQC CA-14
- Ford ESD-M97B49-A
- Volvo Cars 128 6083 / 002 & TR-318541 14-002
- JI Case JIC-501
- MTU / Roll Royce MTL 5048
- Toyota 1WW/2WW Engines

### Following standard

- ASTM D3306
- JIS K2234:2018

- FVV R 530:2005
- AFNOR NF-R-15-601

OEM GROUP	OEM BRAND	SPECIFICATION
BMW	BMW	LC-18
BMW	BMW	LC-87
BMW	BMW	LC-97
Stellantis	Chrysler	MS-7170
Stellantis	Opel	GME L1301
Stellantis	Vauxhall	GME L1301
VW	Volkswagen	TL-774 C
VW	Volkswagen	TL-774 D
VW	Volkswagen	TL-774 F
VW	Volkswagen	TL-774 G
VW	Volkswagen	TL-774 J
VW	Volkswagen	TL-774 L
Stellantis	Alfa Romeo	Fiat 9,55523
Stellantis	Fiat	Fiat 9,55523
Stellantis	Lancia	Fiat 9,55523
Tesla	Tesla	/
Caterpillar	MWM	/
INNIO	Jenbacher	/
Daimler Trucks & Buses	Mercedes-Benz Trucks	325.5
CNH Industrial	Case IH Agriculture	JIC-501
Cummins	Cummins	85T8-2
Deutz	Deutz	DQC CA-14
Ford	Ford	ESD-M97B49-A
Geely	Volvo Cars	128 6083 / 002
Iveco Group	Iveco	18-1830
Rolls Royce Power Systems	MTU	MTL 5048
VW	MAN	324 Typ NF
VW	MAN	324 Typ Si-OAT
Toyota Motor Corporation	Toyota	/
Mercedes-Benz Cars	Mercedes-Benz	325.0
Daimler Trucks & Buses	Mercedes-Benz Trucks	DTRF 29C120

## STORAGE

The product should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimized. Further, it is strongly advised not to expose the coolant in translucent packages to direct sunlight because this can degrade the colour dyes present in the coolant, and result in fading of the colour or discoloration over time. This reaction can be accelerated if coupled with high ambient temperatures. It is therefore advisable to store coolant filled in translucent packages indoors to avoid this issue.

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