



ENEOS Hyper Cool XB

Nitrites, amines & phosphates free

High Performance Long Lasting Antifreeze Coolant

ENEOS Hyper Cool XB is the high performance long lasting antifreeze coolant, with high heat transfer capability; suitable for use as a coolant in all combustion engines and as heat transfer fluid. Based on ethylene glycol, ENEOS Hyper Cool XB offers protection against boiling and freezing of up to -69°C. Furthermore, the reliance on a Hybrid of Carboxylate Organic Acid Technology (OAT) and Silicate inhibitors means long life through non-depleting corrosion inhibitor and a maintenance-free protection. ENEOS Hyper Cool XB has been approved for leading engine manufacturers including Fiat, BMW, Mercedes-Benz, General Motors, MAN, Volvo and Volkswagen etc.

FEATURES & BENEFITS

- 1. Efficient & Long Lasting Corrosion Protection**
Combination of silicate & carboxylate inhibitor for long lasting 3 year change interval.
- 2. Frost & Boiling protection**
Offers winter protection against engine freeze damage. Control of overheating, coolant loss and breakdown at high engine temperatures.
- 3. Excellent seal compatibility**
Easy on rubber hoses and gasket materials
- 4. Miscibility**
Mixes with existing ethylene glycol coolants.

APPLICATIONS

- Passenger car gasoline, diesel and LPG engines
- Light-duty commercial vehicle gasoline and diesel engines
- Heavy-duty diesel engines fitted with wet or dry liners, in on and off-highway service
- Motorbike, Power equipment & Outboard engines
- Heat transfer systems like central heating installations
- Suitable for use in engines manufactured from cast iron, aluminium or combinations of two metals and in cooling systems made of aluminium or copper alloys

TYPICAL PROPERTIES

Parameters	Concentrate	50% Pre-mixed	40% Pre-mixed
Appearance	Blue		
Density @ 20°C	1.1		
Freezing Protection		-40 °C	-28 °C
pH	7.2	8.4	8.4
Boiling Point	174 °C		
Reserve Alkalinity pH 5.5	16	8.0	7.0

PACK SIZES

- 1L
- 5L
- 60L
- 200L

TYPICAL MIXING RATIO

This concentrate provides year-round frost and corrosion protection. To ensure good corrosion protection, it is recommended to use at least 33 vol. % of this concentrate in coolant solution, providing frost protection of -20°C. Typical mixtures in Northern Europe are 50/50 concentrate /Water, offering frost protection of -40°C. Mixtures with more than 70 vol. % of concentrate are not recommended. The maximum frost protection (-69°C) is obtained at 68 vol. % of concentrate.

Vol % in water	33	40	50	60	68
Freezing Protection °C	-20	-28	-40	-53	-69

Note: The typical properties may be changed without notice. (September 2014)

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.



PERFORMANCE LEVELS

OEM Group	OEM	Specification
Behr	Behr	
BMW	BMW	GS 94000
Cummins	Cummins	85T8-2
Daimler	Mercedes-Benz	325.0
Daimler	Mercedes-Benz	325.2
Fiat	Alfa Romeo	Fiat 9,55523
Fiat	Chrysler	MS-7170
Fiat	Fiat - Lancia	Fiat 9,55523
Fiat	Iveco	Iveco standard 18-1830
Fiat	Lancia	Fiat 9,55523
Ford	Ford	ESD-M97B49-A
Geely	Volvo Cars	128 6083 / 002
General Motors	Opel – GM	GME L1301
General Motors	Saab	6901 599
General Motors	Saturn	
JI Case	JI Case	JIC-501
Lada	Lada/Avtovaz	TTM VAZ 1.97.717-97
MAN	MAN	324 Typ NF
MTU	MTU	MTL 5048
Perkins	Perkins	
Porsche	Porsche	TL-774 C = G 11
Volvo AB	Volvo Construction	128 6083 / 002
Volvo AB	Volvo Trucks	128 6083 / 002
VW	Audi	TL-774 C = G 11
VW	Seat	TL-774 C = G 11
VW	Skoda	TL-774 C = G 11

STANDARDS & SPECIFICATIONS

ASTM Standards		ASTM D3306, ASTM D4656, ASTM D4985
British & French Standards		BS 6580, NFR 15-601
FVV Standards	Germany	FVV Heft R443
Japanese Standards		JASO M325
Korean Standards		KSM 2142
MIL Standards	MIL-Belgium	BT-PS-606 A
MIL Standards	MIL-France	DCSEA 615/C
MIL Standards	MIL-Italy	E/L-1415b
MIL Standards	MIL-Norway	FS 6850-0951
MIL Standards	MIL-Sweden	FSD 8704
NATO Standards		NATO S-759
SAE Standards		SAE J1034
Swiss Fed. Lab		Empa

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