



Eni Antifreeze Spezial J BX

Eni Antifreeze Spezial J BX is an ethylene glycol based engine coolant that - mixed with the appropriate amount of water - provides efficient cooling of the internal combustion engine. The coolant transfers the heat to the radiator where the mixture is cooled by means of airflow. **Eni Antifreeze Spezial J BX** is a *lobrid* product, which means it's formulated with a backbone of organic inhibitors (silicate). Hence it delivers not only maintenance-free protection against *freezing and boiling* but also long-lasting protection against corrosion.

BENEFITS

Eni Antifreeze Spezial J BX offers many benefits to the engine designer as well as to the user:

- **Long life protection** by means of synergistic effect through a particular combination of organic inhibitors.
- **Uniform & homogenous protective layer** through an engineered inhibitor package
- **Long-term stability** as a result of high performance silicate stabiliser which prevents gel-formation or drop-out
- **Protection of all metals**, including aluminium and ferrous alloys, thank to high-performance additives
- **Environmentally friendly** due to the absence of borate, nitrite, amines and phosphates

APPLICATION

Eni Antifreeze Spezial J BX provides efficient frost and corrosion protection. To ensure good corrosion protection it is recommended to use at least 33 vol. % of **Eni Antifreeze Spezial J BX** in the coolant solution. This provides frost protection to -22°C. Typical mixtures in Northern Europe are 50/50, offering frost protection down to -40°C. Mixtures with more than 70 vol. % **Eni Antifreeze Spezial J BX** in water are not recommended. The maximum frost protection (about -69 ° C) is obtained at 68 vol%.

Eni Antifreeze Spezial J BX may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys. **Eni Antifreeze Spezial J BX** is particularly recommended for hi-tech engines, where high temperature aluminium protection is important.

COMPATIBILITY AND MIXABILITY

Eni Antifreeze Spezial J BX is compatible with most other coolants based on ethylene glycol. Exclusive use is however recommended for optimum corrosion protection and inhibitor stability. This coolant is compatible with European hard tap waters. It satisfies the most stringent requirements for hard water stability.

APPROVAL

Eni Antifreeze Spezial J BX meets the requirements of VW TL774J (G13), and has successfully passed all stringent VW lab, fleet & performance tests.



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	Eni Antifreeze Spezial J BX	ASTM 3306 requirements	method
Ethylene-Glycol	73% w/w glycol	Base	
Glycerol	Max 20 %		
Water content, % wt	Typ 2.8 %	5.0% max	ASTM D1123
Nitrite, amine, phosphate, borate	Nil		
Colour	Light red / violet		
Density 15°C. Kg/l	Typ 1.143	1.110 – 1.145	ASTM D5931
Density 20°C kg/l	Typ 1.140		ASTM D5931
Equilibrium boiling point °C	Typ >170	>163	ASTM D1120
Reserve alkalinity ml HCl 0,1N (pH 5.5)	Typ 5.7	Report	ASTM D1121
pH, 20°C is 33 vol %	Typ 8.6 Typ 8.4		ASTM D1287
Refractive index, 20%	Typ 1.440		ASTM D1218
Foaming performance <i>Step 1</i> Foaming properties @ 20°C (33 v%) └ volume └ volume after 1 minute	10 0		
<i>Step 2</i> Foaming properties @80°C (33v%) └ volume └ volume after 1 minute	30 0		TL774J
<i>Step 3</i> Foaming properties @ 20°C (33v%) └ volume └ volume after 1 minute	15 0		