


Product properties – Technical sheet

<p>TB PROTECTION</p>	<p>Item no.: 80 80 00</p>
<p>Areas of application</p>	<p>TB Protection is a concentrated absorber for calcium, magnesium and heavy metal ions in cooling circuits where the material has a high content of copper.</p> <p>TB Protection contains excellent corrosion inhibitors which protect the copper components against excessive corrosion.</p> <p>TB Protection prevents the formation of layers on cooling segments, surfaces and other pipe components which come into contact with the supersaturated cooling water. This allows a smooth, profitable and extremely efficient operation of the unit.</p>
<p>Method of application</p>	<p>Suitable for automatic metering (time relay or volumetric controlled):</p> <p>Concentration: 5 – 10 g/m³ and °dH Temperature: 5 – 80°C Time: The product remains in the system</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p>
<p>Material compatibility</p>	<p>PVDF, PP, PE, PVC, Stainless Steel, Steel and Cast Iron.</p> <p>TB Protection must not be used on aluminium.</p> <p>In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot before its definite use.</p>

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Analysis of concentration	according to the titration instructions		
Physical and chemical properties			
Aspect/colour	Clear	Colourless – Yellowish	
Form	Liquid		
Odour	Characteristic		
Foaming behaviour (see under conditions of application)	Not foaming		
Phosphates	n/a		
Density (20°C) g/cm³	1.00 – 1.110		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	11.7 – 12.3	n/a	n/a
Conductance (1 %, 20°C) mS/cm	2.35 – 2.85	7.0 – 8.0	10.8 – 12.8
Phenolphthalein alkalinity (ml)	3.1 ± 0.4 (1 % at 30 ml sample)		
m-Value (ml)	n/a		
Storage stability	+ 5°C to + 40°C		
Remarks regarding biocides	n/a		
Hazardous products	Sodium Hydroxide / Methyl-1H-benzotriazole		
Risk symbols			
	DANGER		
Special remarks	<p>Always close the container with the original closure, and store the items in a cool area without solar radiation. Product which was taken out of the container must never be poured back into the container.</p> <p>Read in any case our safety data sheet before using the product!</p>		
Disposal	Disposal acc. to official regulations, in case of doubt contact the manufacturer.		

Please refer to our safety data sheets and our operating instructions with regard to precautionary measures, first aid measures and storage. The information given in the Sheet corresponds to the present state of our technical knowledge and experience. They do not constitute any guarantee; they are to be considered as basic information only. In particular they do not guarantee particular properties or the suitability for a concrete purpose. Because of the multitude of possible influences during the application of our products, the user has to make in any case the relevant tests and take the corresponding precautions. Any existing intellectual property rights are to be observed.