


**Product properties – Technical sheet**

<p><b>ALU CLEANER AK EXTRA CHLORINE FREE</b></p>	<p><b>Item no.:</b> <b>00 13 00</b></p>
<p><b>Areas of application</b></p>	<p><b>Alu Cleaner AK Extra Chlorine Free</b> is a concentrated alkaline cleaner for the internal and outside cleaning of systems made from aluminium.</p> <p>Because of the special combination of anti-scale agents and not foaming ingredients <b>Alu Cleaner AK Extra Chlorine Free</b> is particularly suitable for the cleaning of filling and heating systems as well as pipe systems and tanks in food industry.</p> <p><b>Alu Cleaner AK Extra Chlorine Free</b> is suitable in all areas of water hardness.</p> <p><b>Alu Cleaner AK Extra Chlorine Free</b> easily removes yeast plants, mildew, protein residues as well as slight tartar deposits.</p>
<p><b>Method of application</b></p>	<p><b>Spray cleaning for surfaces or re-circulating cleaning system:</b></p> <p>Concentration: 1,0 – 3,0 %          Temperature: cold – 80°C          Time: 20 – 30 minutes</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p>
<p><b>Material compatibility</b></p>	<p>PVDF, PP, PE, Stainless Steel, Glass, Cast Iron, Tiles and 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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<b>Analysis of concentration</b>	according to the titration instructions		
<b>Physical and chemical properties</b>			
<b>Aspect/colour</b>	Clear	Tawny – Brownish	
<b>Form</b>	Liquid		
<b>Odour</b>	Characteristic		
<b>Foaming behaviour</b> <small>(see under conditions of application)</small>	Not foaming		
<b>Phosphates</b>	n/a		
<b>Density (20°C) g/cm<sup>3</sup></b>	1.275 – 1.295		
<b>Concentration</b>	<b>1 % in H<sub>2</sub>O dest.</b>	<b>3 % in H<sub>2</sub>O dest.</b>	<b>5 % in H<sub>2</sub>O dest.</b>
<b>pH value (1 %, 20°C)</b>	11.5 – 12.1	n/a	n/a
<b>Conductance (1 %, 20°C) mS/cm</b>	2.9 – 3.4	7.8 – 8.8	12.7 – 14.7
<b>Phenolphthalein alkalinity (ml)</b>	8.1 ± 0.5 (1 % at 30 ml sample)		
<b>m-Value (ml)</b>	n/a		
<b>Storage stability</b>	+ 5°C to + 40°C		
<b>Remarks regarding biocides</b>	n/a		
<b>Hazardous products</b>	Potassium Hydroxide / Alanine, N,N-bis(carboxylatomethyl) Trisodium salt		
<b>Risk symbols</b>			
	<b>DANGER</b>		
<b>Special remarks</b>	<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><b>Read in any case our safety data sheet before using the product!</b></p>		
<b>Disposal</b>	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.