



## Product properties – Technical sheet

<h3>DESCALER OF LIME AND BOILER SCALE</h3>	<p><b>Item no.:</b> <b>30 20 03</b></p>
<p><b>Areas of application</b></p>	<p><b>Descaler</b> is a strong acid concentrate for the removal of inorganic residues, with special inhibitors to protect the metal surfaces from corrosion.</p> <p><b>Descaler</b> is used for the decalcifying of bottle-washing units, high pressure appliances, pipes of used machines and appliances. Passages, nozzles, heating coils and containers are cleansed of boiler scale.</p> <p>Anticorrosive inhibitors reduce the corrosion on cast iron, steel and plastic parts. Do not use for refined steel and chrome.</p> <p>For that, <b>WIGOL</b><sup>®</sup> Refined Steel Descaler is recommended.</p>
<p><b>Method of application</b></p>	<p>The product should be used in a concentration of maximal 10 %. It is not necessary to work with temperature.</p> <p>Normally the time of application is between 2 and 3 hours. If there are very strong residues the product can be used for maximal 6 hours.</p> <p>The <b>Descaler</b> must be used in charge. During the procedure the pH value must be proofed all 20 – 30 minutes.</p> <ul style="list-style-type: none"> <li>♦ If the pH value is growing over pH 4, <b>Descaler</b> must be added.</li> <li>♦ If the pH value is growing and stops at a certain level, the scale is removed.</li> </ul> <p>Before the solution can be given into the waste water the pH value must be neutralised between 7.5 and 8.5. For that procedure we suggest the product <b>Passivation A</b>.</p> <p>Concentration: 5.0 – 10.0 % Temperature: 5 – 25°C Time: 2 – 3 hours</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, PVC, Glass</p> <p>On steel, zinc, cast iron it is possible to have a little removal of the material. Don't use <b>Descaler</b> on marble. 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>	see titration method		
<b>Physical and chemical properties</b>			
<b>Aspect/colour</b>	Clear	Brown – Dark Brown	
<b>Form</b>	Liquid		
<b>Odour</b>	Pungent		
<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>	1.145 – 1.165		
<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>	1.0 – 1.6	n/a	n/a
<b>Conductance (1 %, 20°C) mS/cm</b>	30.0 – 36.0	90.0 – 105.0	150.0 – 170.0
<b>Phenolphthalein alkalinity (ml)</b>	8.5 ± 0.5 (1 % at 10 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>	Hydrochloric acid		
<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.