


Product properties – Technical sheet

<p>VR X 15 DEGREASER</p>	<p>Item no.: 00 09 81</p>
<p>Areas of application</p>	<p>VR X 15 is an acid cleaner. The special combination of detergents allows using the product in dipping, immersion flooding and ultrasonic systems.</p> <p>VR X 15 is particularly suitable for the removal of drawing greases and oils on aluminium parts and parts made of stainless steel.</p> <p>VR X 15 has an additional pickling effect and removes oxidation layers from the different parts.</p>
<p>Corrosion protection</p>	<p>VR X 15 hasn't any components for corrosion protection to prevent sensitive material from corrosion.</p>
<p>Method of application</p>	<p>Suitable for automatic metering (time relay, volumetric control or control by conductance):</p> <p>Concentration: 0.5 – 5.0 % Temperature: 20 – 60°C Spray pressure: 0 bar Time: 5 – 10 minutes</p> <p>According to the desired quality standard the cleaned parts must be rinsed thoroughly with water or demineralised water to remove any possible residues!</p> <p>If parts are sensitive to corrosion an addition of a corrosion inhibitor into the last rinsing bath is necessary.</p>
<p>Material compatibility</p>	<p>PVDF, PP, PE, PVC, Stainless Steel, Aluminium, Glass</p> <p>VR X 15 must not be used on steel, zinc, cast iron.</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	Yellowish	
Form	Liquid		
Odour	Characteristic		
Foaming behaviour <small>(see under conditions of application)</small>	Not Foaming		
Phosphates	Contained		
Density (20°C) g/cm³	1.222 – 1.242		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	1.6 – 2.1	n/a	n/a
Conductance (1 %, 20°C) mS/cm	4.91 – 5.91	10.45 – 12.45	14.72 – 17.72
Phenolphthalein alkalinity (ml)	7.4 ± 0.5 (1 % at 10 ml sample)		
m-Value (ml)	n/a		
Storage stability	- 5°C to + 40°C		
Remarks regarding biocides	n/a		
Hazardous products	Orthophosphoric acid		
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.