


## Product properties – Technical sheet

<b>VR X 54 EXTRA DEGREASER</b>	<b>Item no.:</b>  <b>00 13 38</b>
<b>Areas of application</b>	<p><b>VR X 54 Extra</b> is a concentrated mild alkaline cleaner to be used in aqueous immersion, flooding or ultrasonic systems.</p> <p><b>VR X 54 Extra</b> is particularly suitable for the degreasing of aluminium, normal steel, stainless steel and ceramic parts.</p> <p><b>VR X 54 Extra</b> is a high-yield product with an extremely good cleansing effect.</p> <p><b>VR X 54 Extra</b> is especially developed to remove drawing oils and soaps, mould release agents, polishing and lapping pastes.</p> <p><b>VR X 54 Extra</b> contains a special combination of detergents which ensure efficient cleaning without re-greasing of the parts when taking them out.</p>
<b>Corrosion protection</b>	<p><b>VR X 54 Extra</b> hasn't any components for corrosion protection to prevent sensitive material from corrosion.</p>
<b>Method of application</b>	<p><b>Suitable for automatic dosing (time relay or volumetric control):</b></p> <p>Concentration: 0.5 – 5.0 %        Temperature: 50 – 80°C        Pressure: 0 bar        Time: 2 – 6 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>
<b>Material compatibility</b>	<p>PVDF, PP, PE, PVC, stainless steel, ceramic, glass, grey cast iron, steel and non-ferrous metal.</p> <p><b>VR X 54 Extra</b> must not be used on zinc.</p> <p>In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant part 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	Slightly Brownish – Brownish	
<b>Form</b>	Liquid		
<b>Odour</b>	Characteristic		
<b>Foaming behaviour</b> <small>(see under conditions of application)</small>	Weak Foaming		
<b>Phosphates</b>	Contained		
<b>Density (20°C) g/cm<sup>3</sup></b>	1.040 – 1.060		
<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>	10.4 – 11.0	n/a	n/a
<b>Conductance (1 %, 20°C) mS/cm</b>	n/a	n/a	n/a
<b>Phenolphthalein alkalinity (ml)</b>	2.2 ± 0.3 (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>	2-(2-butoxyethoxy)ethanol/ Fatty alcohol, alkoxyated/ 2-aminoethanol		
<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.