


DEGREASER VR X 81 R	Item no.: 00 11 35
Areas of application	<p>VR X 81 R is a high concentrated liquid, alkaline cleanser and degreaser with special ingredients for corrosion protection to be used in spray cleaning units and in special cases for ultrasonic, flooding and immersion cleaning equipment.</p> <p>VR X 81 R is used to remove drawing oils and soaps, mould release agents, polishing and lapping pastes.</p> <p>VR X 81 R helps oils and greases to float at the surface thus increasing the efficiency of the oil traps.</p> <p>VR X 81 R is particularly suitable for the cleaning of parts before processes for which the surfaces must be as clean as possible, e.g. hardening, shielded welding, soldering, galvanisation or paint coating.</p>
Corrosion protection	<p>VR X 81 R has special components for corrosion protection to prevent sensitive material from corrosion.</p>
Method of application	<p>Suitable for automatic metering (time relay, volumetric control or control by conductance):</p> <p>Concentration: 0.5 – 3.0 % Temperature: 60 – 85°C Spray pressure: 2 – 6 bar Time: 1 – 3 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! If parts are sensitive to corrosion an addition of a corrosion inhibitor into the last rinsing bath is necessary.</p>
Material compatibility	<p>PVDF, PP, PE, stainless steel, steel, grey cast iron, ceramic, glass and under certain conditions copper.</p> <p>VR X 81 R must not be used on aluminium and zinc.</p> <p>In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot before its definite use.</p>

Analysis of concentration	see titration method		
Physical and chemical properties			
Aspect/colour	Brownish		
Form	Liquid		
Odour	Characteristic		
Foaming behaviour <small>(see under conditions of application)</small>	Not foaming		
Phosphates	contained		
Density (20°C) g/cm³	1.155 – 1.175		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	12.0 – 12.6	not applicable	not applicable
Conductance (1 %, 20°C) mS/cm	4.3 – 4.9	12.4 – 14.4	20.0 – 23.0
Phenolphthalein alkalinity	15.0 ± 1.5 (1 % at 30 ml sample)		
m-Value (ml)	not applicable		
Storage stability	+ 5°C – + 40°C		
Remarks regarding biocides	not applicable		
Hazardous products	Potassium Hydroxide / Sodium Hydroxide		
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.