


Product properties – Technical sheet

VR X 46 US DEGREASER	Item no.: 00 16 32
Areas of application	<p>VR X 46 US is a concentrated liquid, mild acid cleaner and degreaser to be used in flooding cleaning equipment as well as dipping and ultrasonic application.</p> <p>VR X 46 US is used to remove oils, soaps and greases from surfaces especially from aluminium, non-ferrous metals, ceramic and stainless steel.</p> <p>VR X 46 US contains a special combination of detergents which ensure efficient cleaning without re-greasing the parts during pull out them from the bath.</p> <p>VR X 46 US contains special brightening agents in order to get bright surfaces on aluminium.</p>
Corrosion protection	<p>VR X 46 US hasn't any components for corrosion protection to prevent sensitive material from corrosion.</p>
Method of application	<p>Suitable for automatic metering (time relay, volumetric control):</p> <p>Concentration: 0.5 – 3.0 % 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>
Material compatibility	<p>PVDF, PP, PE, PVC, stainless steel, ceramic, glass and aluminium, in special cases for non-ferrous metal.</p> <p>VR X 46 US must not be used on steel, grey cast iron 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>

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Analysis of concentration	see titration method		
Physical and chemical properties			
Aspect/colour	Clear	Colourless – Slightly Brownish	
Form	Liquid		
Odour	Characteristic		
Foaming behaviour (see under conditions of application)	Not foaming		
Phosphates	Contained		
Density (20°C) g/cm³	1.095 – 1.115		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	2.2 – 2.8	n/a	n/a
Conductance (1 %, 20°C) mS/cm	1.4 – 1.8	3.0 – 3.9	4.5 – 6.0
Phenolphthalein alkalinity (ml)	3.6 ± 0.3 (1 % at 10 ml sample)		
m-Value (ml)	n/a		
Storage stability	+ 5°C to + 40°C		
Remarks regarding biocides	n/a		
Hazardous products	Citric acid / Reaction mass of dimethyl hydrogen phosphate and methyldihydrogen phosphate and orthophosphoric acid / Isotridecanol, ethoxylated		
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.