



Product properties – Technical sheet

MICROL P-CF-S	Item no.: 41 28 42
Areas of application	<p>Microl P-CF-S is especially developed for the usage in PALL-membrane filter systems.</p> <p>Microl P-CF-S is a mixture of inorganic acids for the cleaning and stabilisation from filters and membrane plants.</p> <p>Microl P-CF-S is especially developed to remove residues, caused by the water e.g. carbonates in order to prevent the membrane from blocking.</p> <p>Microl P-CF-S is used in the flushing program of the membrane filter system.</p> <p>Continuous cleaning cycles take care of good condition of the membranes and more regular flow capacity.</p>
Method of application	<p>Re-circulating cleaning system, also suitable for systems with automatic dosing system (time-relay, volumetric control or control according the conductivity):</p> <p>Concentration: 1.0 – 3.0 % Temperature: 20 – 40 °C Time: 10 – 40 minutes in flushing program</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p> <p>Wet Conservation: If the filter is not used for some days Microl P-CF-S can be used to make stabilisation in the filter system and to prevent the membrane from blocking. After the cleaning procedure the system should be filled with a 0.5 % solution of Microl P-CF-A or Microl P-CF-S.</p>
Material compatibility	<p>PVDF, PP, PE, PVC, Stainless steel, glass and suitable for alkali-resistant membranes such as polysulfone, polypropylene and ceramics.</p> <p>Before using the system, it is essential to follow the system manufacturer's instructions and to pay particular attention to the limitations with regard to pH value and temperature.</p> <p>Attention: Microl P-CF-S must not be used in systems made of steel, gray cast iron and non-ferrous metals, especially aluminium. Cellulose and cellulose acetate membranes are destroyed. In addition, further material incompatibilities cannot be completely ruled out. Therefore it should be used on a trial basis before use.</p>

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Analysis of concentration	according to the titration instructions		
Physical and chemical properties			
Aspect/colour	Clear	Colourless	
Form	Liquid		
Odour	Pungent		
Foaming behaviour <small>(see under conditions of application)</small>	Not Foaming		
Phosphates	Contained		
Density (20°C) g/cm³	1.262 – 1.282		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	1.1 – 1.7	n/a	n/a
Conductance (1 %, 20°C) mS/cm	15.3 – 18.3	43.8 – 49.8	70.3 – 80.3
Phenolphthalein alkalinity (ml)	7.7 ± 0.5 (1 % at 10 ml sample)		
m-Value (ml)	n/a		
Storage stability	- 5° C – + 40° C		
Remarks regarding biocides	n/a		
Hazardous products	Nitric acid / 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.