


Product properties – Technical sheet

ANTISCALANT W 100	Item no.: 00 13 74
Areas of application	<p>Antiscalant W 100 is a special absorber for water hardness especially developed for reverse osmosis plants (RO).</p> <p>Antiscalant W 100 prevents the plant from deposits, made from salts caused by water hardness calcium carbonates, calcium sulphates, barium sulphates and strontium sulphates. The product can be used till a concentration of Fe or Al of 0.2 mg/l (in concentrate).</p> <p>Antiscalant W 100 can be used in different applications:</p> <ul style="list-style-type: none"> ▪ Prevention from RO-Membrane Scaling, caused by following substances: <ul style="list-style-type: none"> ♦ Calcium carbonate (CaCO₃) – LSI (Langlier Saturation Index) < 2.6 ♦ Barium sulphate (BaSO₄) – till 106 times super-saturation ♦ Calcium sulphate (CaSO₄) – till 3,5 times - super-saturation ♦ Strontium sulphate (SrSO₄) – till 20 times super-saturation ♦ Calcium fluoride (Ca F) – till 120 times super-saturation ▪ The ability of disperse is reducing fouling of colloid and fouling of suspended matters on the membrane surfaces ▪ Compatibility with poly electrolytes ▪ Absorption of heavy metals, results in reduction of fouling of heavy metal ▪ Compatibility with all commercial standard RO-membranes
Method of application	<p>Antiscalant W 100 has an optimal effect, when the product is dosed after the multimedia filters and before the multiple tube filters. Take care that the product is mixed thoroughly in the circulating water.</p>
Dilution	<p>Antiscalant W 100 must not be used more than 1:10 (10 %). It is necessary to use for the mixing soft water or desalinated water.</p>
Dosage	<p>Antiscalant W 100 use between 2 – 8 ppm (2 – 8 g/m³). The best dosing ratio should be determined by WIGOL[®] scale computer program for dosing. The WIGOL[®] service gives individual support for dosing.</p>
Material compatibility	<p>Antiscalant W 100 is compatible with all commercial standard RO-membranes</p>

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Analysis of concentration	according to the titration instructions		
Physical and chemical properties			
Aspect/colour	Clear	Colourless	
Form	Liquid		
Odour	Characteristic		
Foaming behaviour (see under conditions of application)	Not Foaming		
Phosphates	n/a		
Density (20°C) g/cm³	1.165 – 1.185		
Concentration	1 % in H₂O dest.	3 % in H₂O dest.	5 % in H₂O dest.
pH value (1 %, 20°C)	2.9 – 3.5	n/a	n/a
Conductance (1 %, 20°C) mS/cm	1.15 – 1.35	2.8 – 3.2	4.4 – 5.0
Phenolphthalein alkalinity (ml)	7.35 ± 0.5 (1 % at 30 ml sample)		
m-Value (ml)	n/a		
Storage stability	+ 5°C to + 30°C		
Remarks regarding biocides	n/a		
Hazardous products	1-hydroxyethane-1,1-diylbis(phosphonic 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.