



DIAION

TDS 02097

DIAION SA10A - Strongly Basic Resin

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DIAION SA10A is a "TYPE I" gel strongly basic anion exchange resin, manufactured with the most advanced process and having many excellent characteristics such as a very strong basicity, which remains unchanged in the long run, and a good resistance to mechanical attrition and osmotic shocks. Besides, beads are particularly uniform.

It is particularly recommended in all cases where also all weak acids must be completely removed.

Its composition complies with the existing food processing rules and regulations.

DIAION SA10A can be supplied under request in calibrated screen grades to meet all the standardized application systems (co-current, counter-current, fluidized beds, layered beds, continuous processes, etc.).

The main applications of this product are water demineralization, condensate treatment, separation and purification of organic acids, and others.

TYPICAL CHARACTERISTICS

Matrix	:	Gel copolymer styrene-DVB	
Functional group	:	Trimethylamine	
Colour and physical form	:	Light yellow transparent beads	
Particle size range	:	0.3 ÷ 1.18	mm
Effective size	:	0.35 min	mm
Uniformity Coefficient	:	1.6	max
Ionic form at the delivery	:	Cl ⁻	
Volume change	:	+ 15 max	% Cl ⁻ --> OH ⁻ form
Total exchange capacity	:	1.3 min	eq/l
Water retention	:	43 ÷ 47	%
pH stability range	:	0 ÷ 14	
Operating pH range	:	0 ÷ 12	
Operating temperature	:	60 °C max	(OH ⁻); 100 °C max (Cl ⁻)
Shipping weight	:	685	g/l approx.
Standard packaging	:	25 ÷ 50	liter bags

RECOMMENDED OPERATING CONDITIONS

Minimum bed depth	:	800	mm
Linear operating flowrate	:	5 ÷ 50	m/h
Backwash expansion	:	50 ÷ 80	%
Regenerant	:	NaOH	
Regenerant level range	:	50 ÷ 150	g/l
Concentration range	:	3 ÷ 5 %	
Slow rinse volume	:	1.5 ÷ 2	BV
Fast rinse volume	:	5 ÷ 10	BV

Resindion S.r.l.

A Subsidiary of  MITSUBISHI CHEMICAL



OPERATING CAPACITY

Operating capacity depends on various parameters, such as inlet composition, endpoint, kinetic load and regenerant level.

In case of need, please contact our TECHNICAL DEPARTMENT.

Fig. 1 BED EXPANSION IN WATER

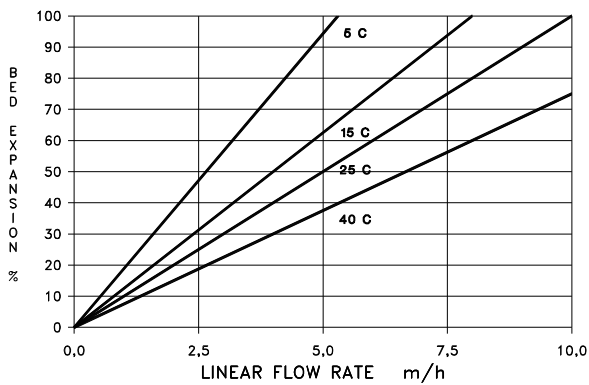
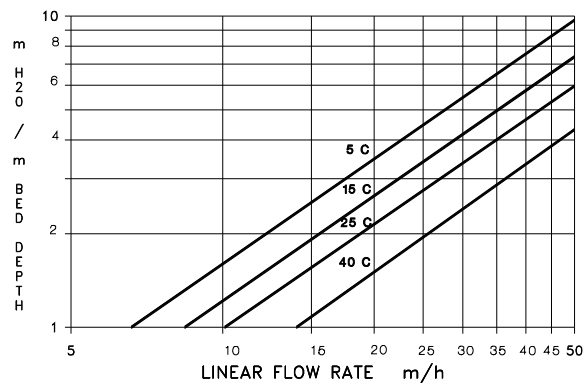


Fig. 2 PRESSURE DROP IN WATER



RECOMMENDED NaOH QUALITY FOR REGENERATION (*)			
Silica	10 ppm	Sodium carbonate	0.5 %
Iron	10 ppm	Sodium chloride	0.5 %
Mercury	2 ppm	Sodium sulphate	0.2 %
Heavy metals	5 ppm	Hardness	0 ppm
Chlorates	10 ppm as O ₂	Suspended solids	0 ppm

(*) Values referred to NaOH 100%.