



DIAION

TDS07104

DIAION SA20A - Strongly Basic Resin

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DIAION SA20A is a "TYPE II" gel strongly basic anion exchange resin, having many excellent characteristics such as a very high capacity and a good resistance to mechanical and osmotic shocks. Besides, beads are particularly uniform.

Its basicity is lower than that of DIAION SA10A, therefore regeneration efficiency and operating capacity are significantly higher.

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

DIAION SA20A 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 all cases of water demineralization, separation and purification of organic acids, and others.

TYPICAL CHARACTERISTICS

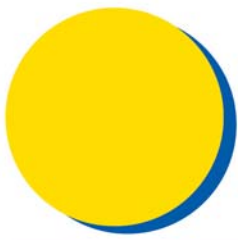
Matrix	:	Gel copolymer styrene-DVB	
Functional group	:	Dimethylethanolamine	
Colour and physical form	:	Light yellow transparent beads	
Particle size range	:	0.3 ÷ 1.18	m m
Effective size	:	0.4 min	m m
Uniformity Coefficient	:	1.6	max
Ionic form at the delivery	:	Cl ⁻	
Volume change	:	+ 15 max	% Cl ⁻ → OH ⁻ form
Total exchange capacity	:	1.3 min	eq/l
Water retention	:	45 ÷ 52	%
pH stability range	:	0 ÷ 14	
Operating pH range	:	0 ÷ 12	
Operating temperature	:	40 °C max	(OH ⁻); 60 °C max (Cl ⁻)
Shipping weight	:	700	g/l approx.
Standard packaging	:	50 ÷ 1000	liter bags

RECOMMENDED OPERATING CONDITIONS

Minimum bed depth	:	800	m m
Linear operating flowrate	:	5 ÷ 50	m/h
Backwash expansion	:	50 ÷ 80	%
Regenerant	:	NaOH	
Regenerant level range	:	50 ÷ 150	g/l
Concentration range	:	3 ÷ 6	%
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

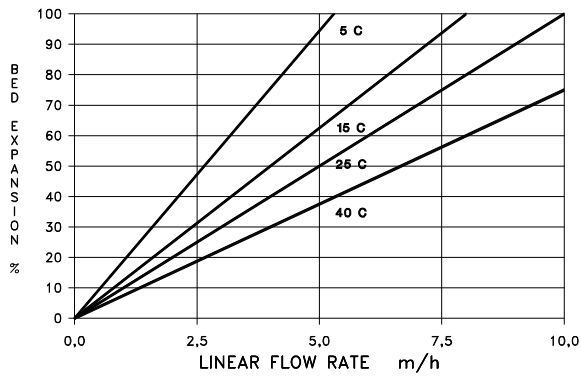
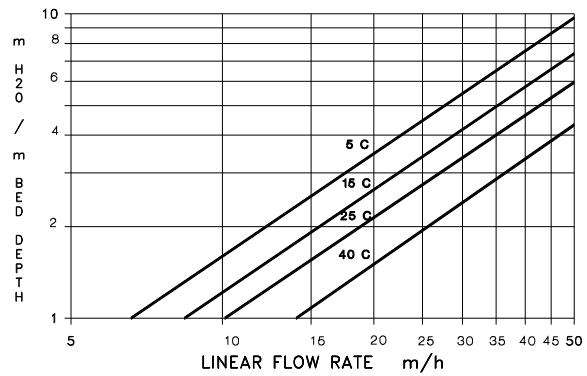


Fig. 2 PRESSURE DROP IN WATER



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%.			