DIAION[™] SA10A

DIAION $^{\text{TM}}$ SA10A is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

Grade Name DIAION™ SA10A Type Strong Base Anion Matrix Styrene-DVB, Gel Functional Group Type I (trimethyl ammonium groups) Ionic Form Cl° Specification Whole Bead Count - 90 min. Salt Splitting Capacity meq/mL Water Content % 9 min. 43 - 47 Particle Size Distribution on 1180 μm % 9 main. 5 max. Particle Size Distribution thr. 300 μm % 1 max. Typical Properties Shipping Density GPL 670 Mean Particle Size μm 670 Particle Density g/mL 1.08 Total Swelling (Cl⁻ to OHʾ) % 23 Recommended Operating Conditions Maximum Operating Temperature °C 80 (Cl) Operating PH Range 0 - 14 Minimum Bed Depth mm 800 Service Flow Rate BV/h 10 - 60 Regenerant Concentration NaOH 2 - 8 <	Product		
Matrix Styrene-DVB, Gel Functional Group Type I (trimethyl ammonium groups) Ionic Form CI° Specification Whole Bead Count - 90 min. Salt Splitting Capacity meq/mL 1.3 min. Water Content % 43 - 47 Particle Size Distribution on 1180 μm % 5 max. Particle Size Distribution thr. 300 μm % 1 max. Effective Size mm 0.40 min. 0.40 min. Uniformity Coefficient - 1.6 max. Typical Properties Shipping Density g/L Mean Particle Size μm 670 Particle Density g/mL 1.08 1.08 Total Swelling (Cl to OH) % 23 Recommended Operating Conditions Maximum Operating Temperature °C 80 (Cl) Maximum Departing PH Range Minimum Bed Depth mm 800 Service Flow Rate BV/h 10 - 60 Regenerant Regenerant Concentration % NaOH 2 - 8 Regenerant Concentration % NaOH 2 - 8 Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Grade Name		DIAION TM SA10A
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Mean Particle Sizeμm670Particle Densityg/mL1.08Total Swelling(Cl to OH)%23Recommended Operating ConditionsMaximum Operating Temperature°C80 (Cl)60 (OH)60 (OH)Operating pH Range0 - 14Minimum Bed Depthmm800Service Flow RateBV/h10 - 60RegenerantNaOHRegenerant Concentration%NaOH 2 - 8Regenerant Levelg/L50 - 200Regenerant Flow RateBV/h2 - 8	Typical Properties		
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Recommended Operating Conditions Maximum Operating Temperature °C 80 (Cl') Operating pH Range 0 - 14 Minimum Bed Depth mm 800 Service Flow Rate BV/h 10 - 60 Regenerant NaOH Regenerant Concentration % NaOH 2 - 8 Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Mean Particle Size	μm	670
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Service Flow Rate BV/h 10 - 60 Regenerant NaOH Regenerant Concentration % NaOH 2 - 8 Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Operating pH Range		0 - 14
Regenerant NaOH Regenerant Concentration % NaOH 2 - 8 Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Minimum Bed Depth	mm	800
Regenerant Concentration % NaOH 2 - 8 Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Service Flow Rate	BV/h	10 - 60
Regenerant Level g/L 50 - 200 Regenerant Flow Rate BV/h 2 - 8	Regenerant		NaOH
Regenerant Flow Rate BV/h 2 - 8	Regenerant Concentration	%	NaOH 2 - 8
·	Regenerant Level	g/L	50 - 200
Total Rinse Requirement BV 2 - 10	Regenerant Flow Rate	BV/h	2 - 8
	Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

DIAION[™] SA10A

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $\mathsf{DIAION}^\mathsf{TM}$ SA10A resin in normal down flow operation is shown in the graphs below.

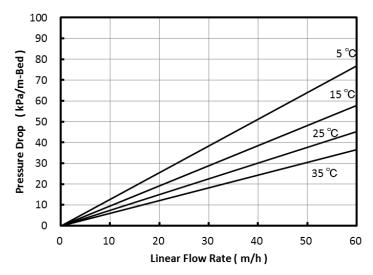


Fig. 1 Pressure Drop of SA10A

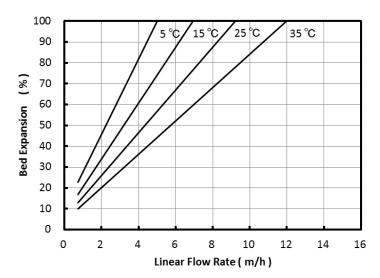


Fig. 2 Bed Expansion of SA10A

Operational Capacity Data

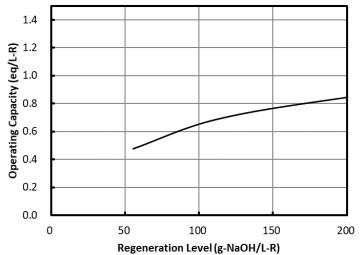


Fig. 3 Operational Capacity Data of SA10A Regenerant: 4 % NaOH

Notice

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