DIAION™ NSA100

 $\mathsf{DIAION^{TM}}$ NSA100 is a gel type strongly basic anion exchange resin. It has a higher cross-linkages and excellent properties. A wide range of applications, especially in a field of iodine isolation from brine, is recommended.

Product		
Grade Name	DIAION TM NSA100	
Туре	Strong Base Anion	
Matrix		Styrene-DVB, Gel
Functional Group	Тур	e I (trimethyl ammonium groups)
lonic Form		Cl¯
Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	38 - 42.5
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	690
Mean Particle Size	μm	630
Particle Density	g/mL	1.08
Total Swelling (Cl to OH)	%	22
Recommended Operating Conditions		
Maximum Operating Temperature	°C	80 (Cl ⁻)
		60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 8
Total Rinse Requirement	BV	2 - 10







Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM NSA100 resin in normal down flow operation is shown in the graphs below.

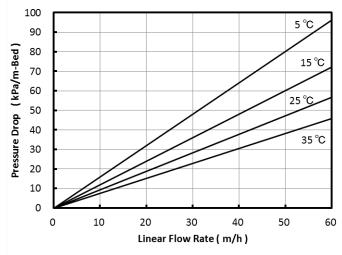


Fig. 1 Pressure Drop of NSA100

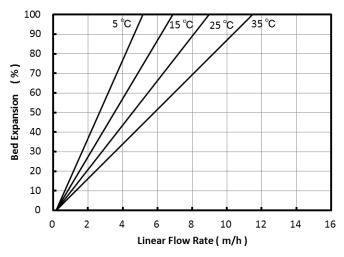


Fig. 2 Bed Expansion of NSA100

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