Product Data Sheet DIAION[™] WA21J

DIAION[™] WA21J is a polyamine type weakly basic anion exchange resin. It has higher total anion exchange capacity with high regeneration efficiency and excellent mechanical strength. A wide range of applications, especially in a field of removal of strong mineral acids in water treatment, is recommended.

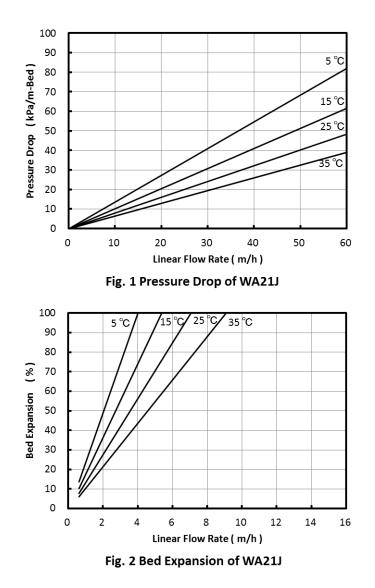
Product		
Grade Name		DIAION TM WA21J
Туре		Weak Base Anion
Matrix		Styrene-DVB, Porous
Functional Group		Polyamine
Ionic Form		Free Base
Specification		
Whole Bead Count	-	95 min.
Total Exchange Capacity	meq/mL	2.0 min.
Water Content	%	40 - 52
Particle Size Distribution on 1180 μ m	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties Shipping Density	g/L	650
Mean Particle Size	μm	610
Particle Density	g/mL	1.07
Total Swelling (FB to Cl)	%	23
Recommended Operating Condition	ons	
Maximum Operating Temperature	°C	100
Operating pH Range		0 - 9
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		NaOH
Regenerant Concentration	%	NaOH 1 - 4
Regenerant Level	% of ionic load	120
	BV/h	2 - 6
Regenerant Flow Rate	DV/11	20

1 BV(Bed Volume)=1 m³/m³-resin

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ WA21J resin in normal down flow operation is shown in the graphs below.



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