

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™ WA21J	
Type	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 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	650
Mean Particle Size	µm	610
Particle Density	g/mL	1.07
Total Swelling (FB to Cl ⁻)	%	23

Recommended Operating Conditions

Maximum Operating Temperature	°C	100
Operating pH Range		0 - 9
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		NaOH
Regenerant Concentration	%	NaOH 1 - 4
Regenerant Level	% of ionic load	120
Regenerant Flow Rate	m/h	2 - 6
Total Rinse Requirement	BV	5 - 10



Hydraulic Characteristics

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

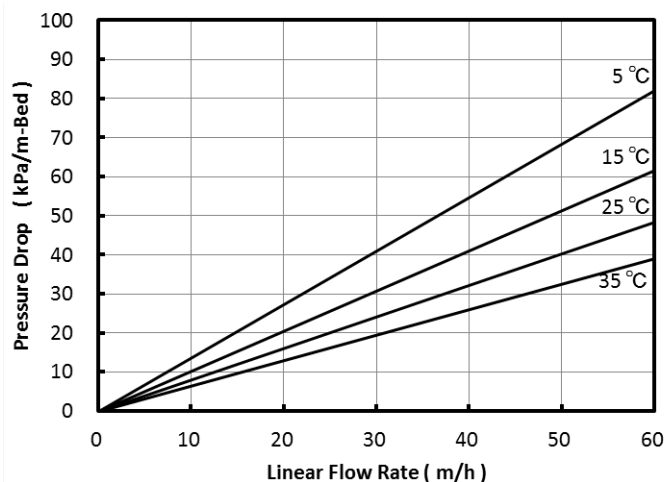


Fig. 1 Pressure Drop of WA21J

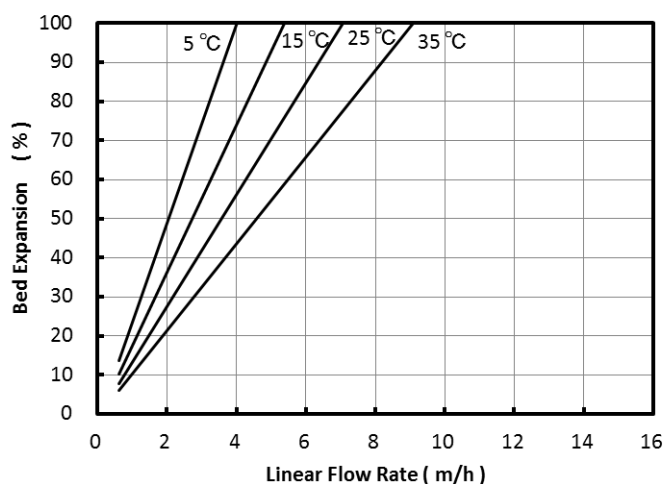


Fig. 2 Bed Expansion of WA21J

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