DIAIOI PA412

DIAION™ PA412 is a porous type strongly basic anion exchange resin. It is type II resin and has a 6% cross-linkages. A wide range of applications, especially in a field of manufacturing pure water and waste water treatment, is recommended.

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Product				
Grade Name	DIAION TM PA412			
Туре		Strong Base Anion		
Matrix	Styrene-DVB, Porous			
Functional Group	Type II (dimethylethanol ammonium groups)			
Ionic Form		Cl		
Specification				
Whole Bead Count	=	95 min.		
Salt Splitting Capacity	meq/mL	1.1 min.		
Water Content	%	46 - 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	690		
Mean Particle Size	μm	630		
Particle Density	g/mL	1.10		
Total Swelling (Cl to OH)	%	13		
Recommended Operating Conditions				
Maximum Operating Temperature	°C	60 (Cl ⁻)		
		40 (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		







DIAION[™] PA412

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM PA412 resin in normal down flow operation is shown in the graphs below.

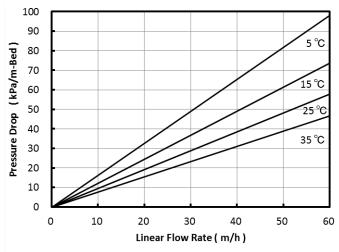


Fig. 1 Pressure Drop of PA412

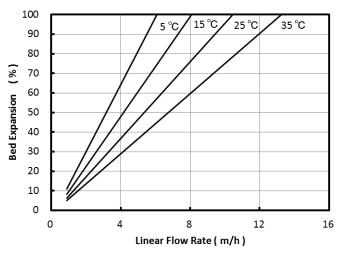


Fig. 2 Bed Expansion of PA412

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