Product Data Sheet

DIAION™ 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.

Product

Grade Name	DIAION™ PA412
Type	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	℃	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 Rince Requirement	BV	2 - 10

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Hydraulic Characteristics

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

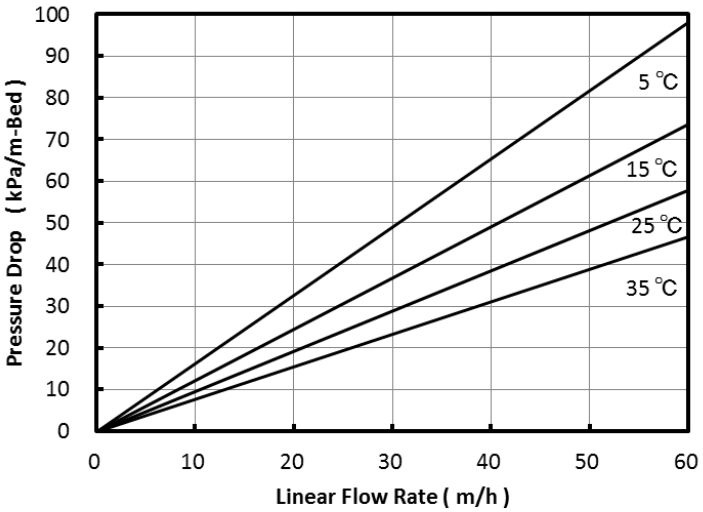

Fig. 1 Pressure Drop of PA412

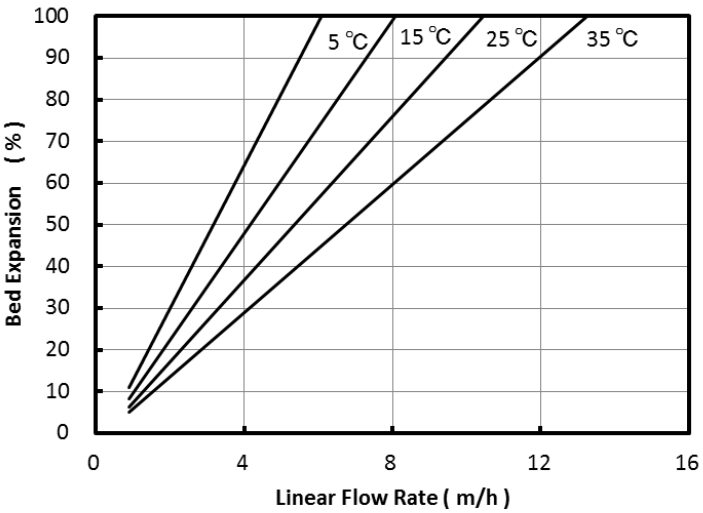

Fig. 2 Bed Expansion of PA412

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