Product Data Sheet

DIAION™ PA312LOH

DIAION™ PA312LOH is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing pure water and wastewater treatment. is recommended.

Product

Grade Name	DIAION™ PA312LOH
Type	Strong Base Anion
Matrix	Styrene-DVB, Porous
Functional Group	Type I (trimethyl ammonium groups)
Ionic Form	OH^-

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.9 min.
Water Content	%	58.0 - 68.0
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 425 µm	%	5 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion OH Form	eq%	90 min.

Typical Properties

Shipping Density	g/L	680
Mean Particle Size	µm	700
Ionic Form Conversion CO_3 Form	eq%	2.3
Ionic Form Conversion Cl Form	eq%	0.27
Particle Density	g/mL	1.07
Total Swelling (Cl^- to OH^-)	%	23

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl^-) 60 (OH^-)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	BV/h	2 - 8
Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m^3/m^3-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™ PA312LOH resin in normal down flow operation is shown in the graphs below.

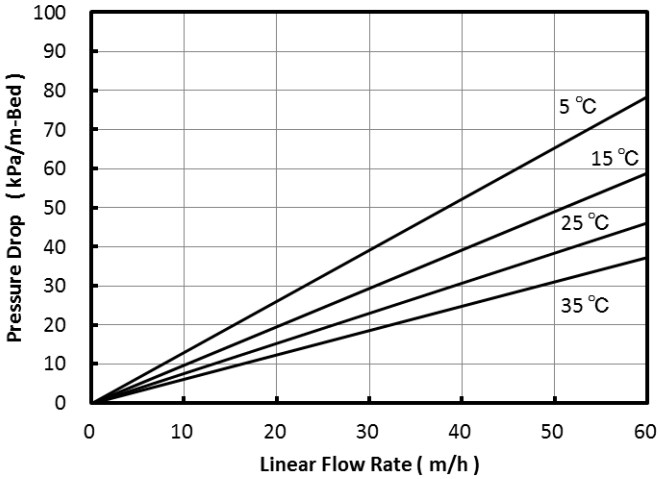

Fig. 1 Pressure Drop of PA312LOH

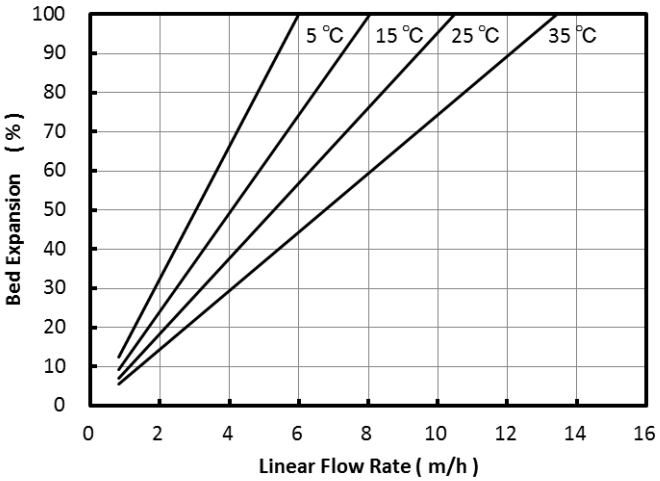

Fig. 2 Bed Expansion of PA312LOH

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