Product Data Sheet

DIAION™ PK216H

DIAION™ PK216H is a porous type strongly acidic cation exchange resin. It has 8% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water and catalysts, is recommended.

Product

Grade Name	DIAION™ PK216H
Type	Strong Acid Cation
Matrix	Styrene-DVB, Porous
Functional Group	Sulfonic Acid
Ionic Form	H^+

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.6 min.
Water Content	%	50 - 60
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.
Ionic Form Conversion H Form	eq%	95 min.

Typical Properties

Shipping Density	g/L	760
Mean Particle Size	µm	740
Particle Density	g/mL	1.19
Total Swelling (Na^+ to H^+)	%	8

Recommended Operating Conditions

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 60
Regenerant		HCl
		H_2SO_4
Regenerant Concentration	%	HCl 4 - 10
		H_2SO_4 1 - 4
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 10
Total Rinse 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™ PK216H resin in normal down flow operation is shown in the graphs below.

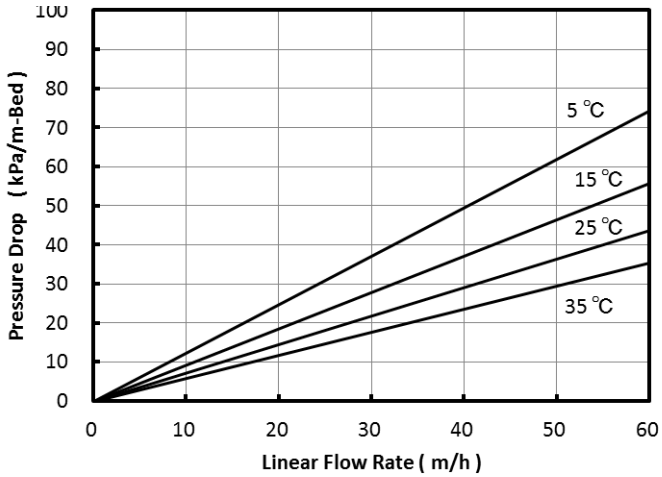

Fig. 1 Pressure Drop of PK216H

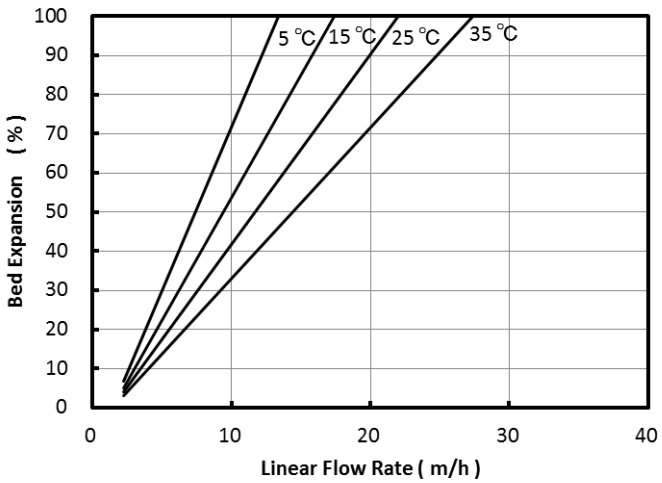

Fig. 2 Bed Expansion of PK216H

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