Product Data Sheet

DIAION™ SK104H

DIAION™ SK104H is a gel type strongly acidic cation exchange resin. It has 4% cross-linkages and excellent properties. A wide range of applications, especially in a field of catalysts, is recommended.

Product

Grade Name	DIAION™ SK104H
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	H^+

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.1 min.
Water Content	%	62 - 72
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^+)	eq%	95 min.

Typical Properties

Shipping Density	g/L	750
Mean Particle Size	µm	730
Particle Density	g/mL	1.13
Total Swelling (Na^+ to H^+)	%	9

Recommended Operating Conditions

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCl
		H_2SO_4
Regenerant Concentration	%	HCl 4 - 10
		H_2SO_4 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
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™ SK104H resin in normal down flow operation is shown in the graphs below.

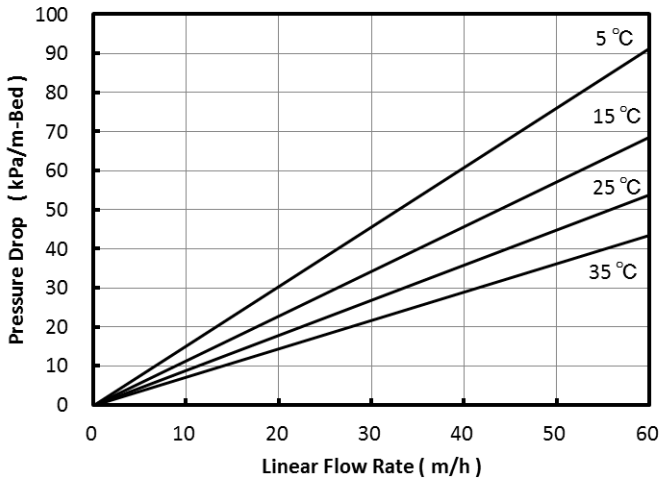

Fig. 1 Pressure Drop of SK104H

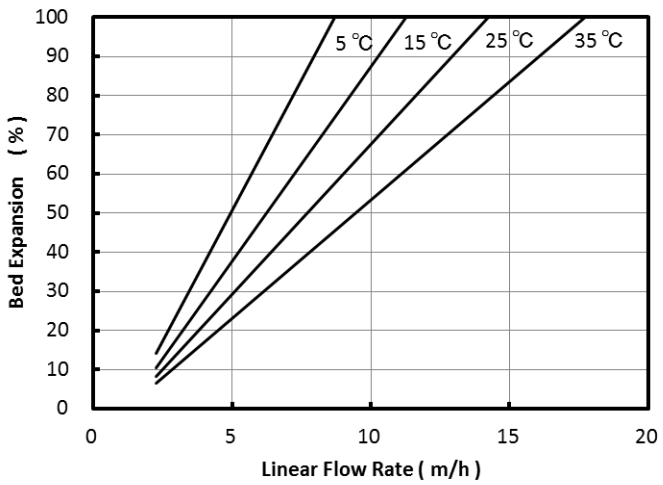

Fig. 2 Bed Expansion of SK104H

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