Product Data Sheet

DIAION™ SK100

DIAION™ SK100 is a gel type strongly acidic cation exchange resin. It has standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

Product

Grade Name	DIAION™ SK100
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	Na^+

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.85 min.
Water Content	%	48 - 54
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	820
Mean Particle Size	µm	800
Particle Density	g/mL	1.25
Total Swelling (Na^+ to H^+)	%	9

Recommended Operating Conditions

Maximum Operating Temperature	℃	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™ SK100 resin in normal down flow operation is shown in the graphs below.

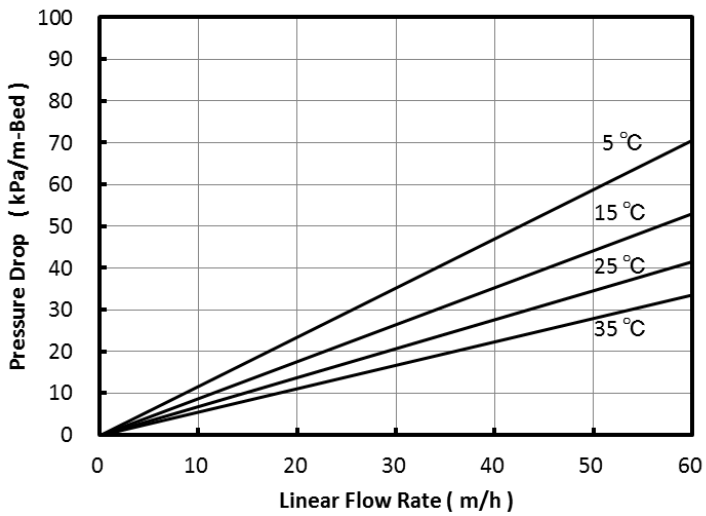

Fig. 1 Pressure Drop of SK100

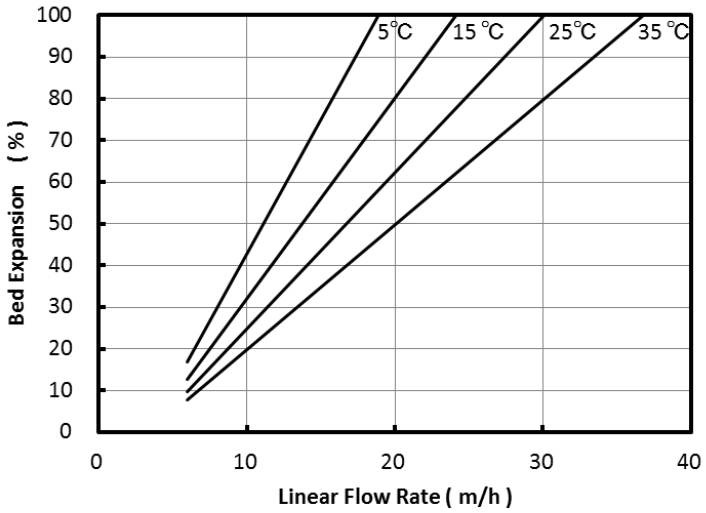

Fig. 2 Bed Expansion of SK100

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Operational Capacity Data

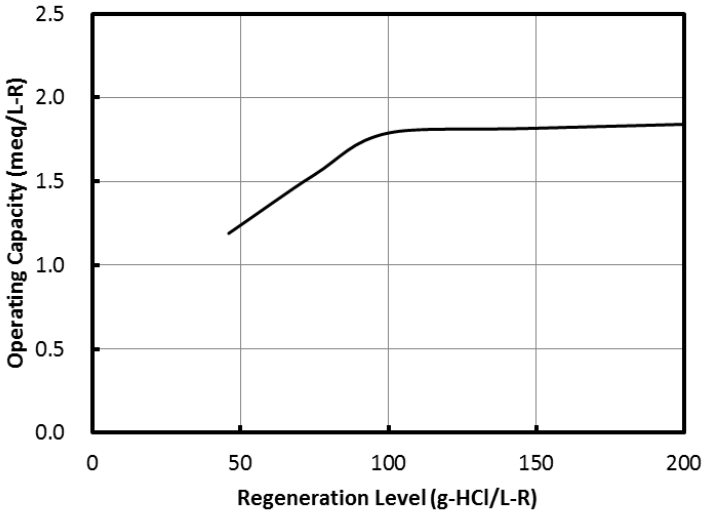

Fig. 3 Operational Capacity Data of SK100
Regenerant : 4 % HCl

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.

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