

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 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 ₂ SO ₄
Regenerant Concentration	%	HCl 4 - 10
		H ₂ SO ₄ 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
Total Rinse Requirement	BV	2 - 10



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.

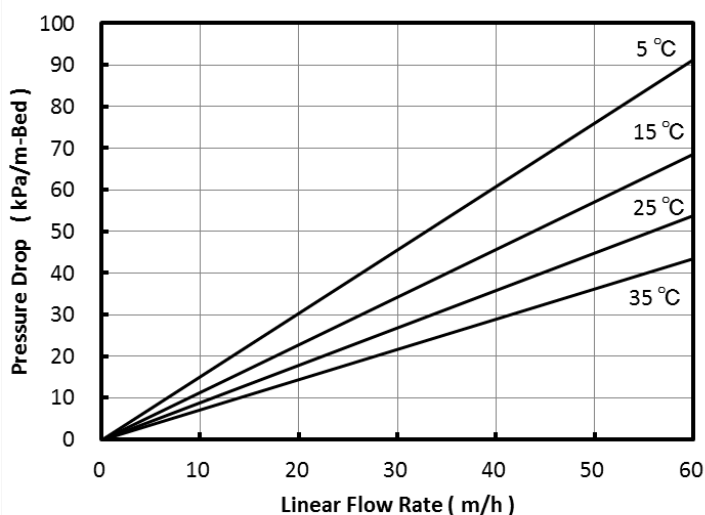


Fig. 1 Pressure Drop of SK104H

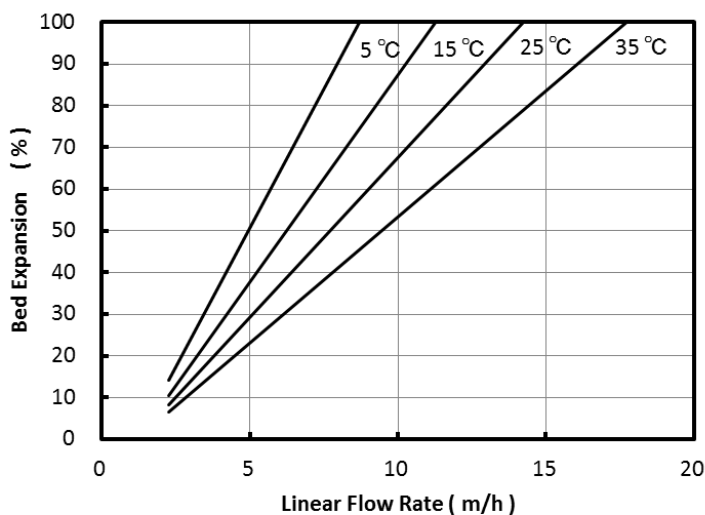


Fig. 2 Bed Expansion of SK104H

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.