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 TM SK104H
Туре		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 Conditi	ons	
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		HCI
		H_2SO_4
Regenerant Concentration	%	HCl 4 - 10
		H ₂ SO ₄ 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	BV/h	2 - 10
Total Rince Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM SK104H resin in normal down flow operation is shown in the graphs below.

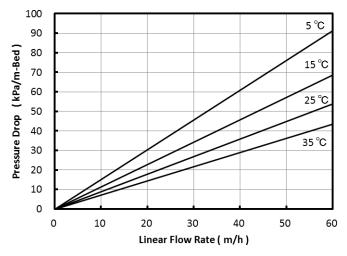


Fig. 1 Pressure Drop of SK104H

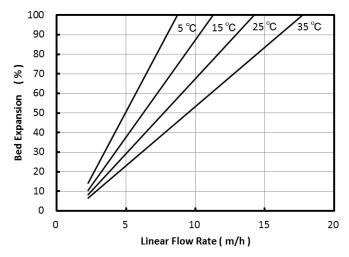


Fig. 2 Bed Expansion of SK104H

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