DIAION[™] SK112L

DIAION™ SK112L is a gel type strongly acidic cation exchange resin. It has 12% 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 TM SK112L
Туре		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	2.1 min.
Water Content	%	32 - 42
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	860
Mean Particle Size	μm	690
Particle Density	g/mL	1.34
Total Swelling (Na ⁺ to H ⁺)	%	6
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 ₂ SO 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 Rinse 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 SK112L resin in normal down flow operation is shown in the graphs below.

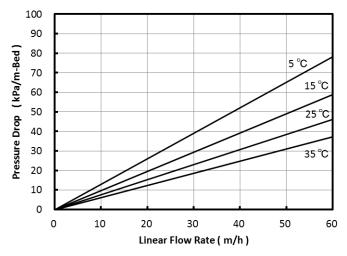


Fig. 1 Pressure Drop of SK112L

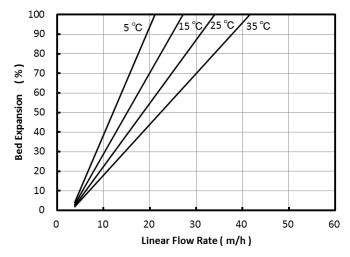


Fig. 2 Bed Expansion of SK112L

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