DIAION™ SK1BL

DIAION™ SK1BL 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 TM SK1BL
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	2.0 min.
Water Content	%	43 - 50
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	840
Mean Particle Size	μm	760
Particle Density	g/mL	1.28
Total Swelling (Na ⁺ to H ⁺)	%	9
Recommended Operating Condition	ons	
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		HCl
		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 Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM SK1BL resin in normal down flow operation is shown in the graphs below.

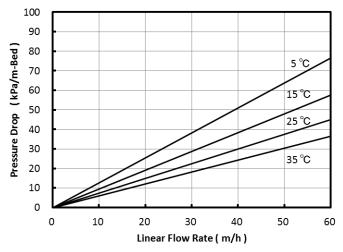


Fig. 1 Pressure Drop of SK1BL

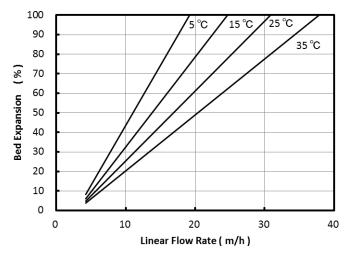


Fig. 2 Bed Expansion of SK1BL

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