### Product Data Sheet DIAION<sup>™</sup> SK1B

DIAION<sup>™</sup> SK1B 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 <sup>™</sup> SK1B
Type Matrix		Strong Acid Cation
Functional Group		Styrene-DVB, Gel Sulfonic acid
Ionic Form		Na <sup>+</sup>
		IVG
Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	2.0 min.
Water Content	%	43 - 50
Particle Size Distribution on 1180 $\mu m$	%	5 max.
Particle Size Distribution thr. 300 $\mu m$	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	840
Mean Particle Size	μm	750
Particle Density	g/mL	1.28
Total Swelling (Na <sup>+</sup> to $H^+$ )	%	9
Recommended Operating Condit	ions	
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant	·	HC
-		H <sub>2</sub> SO <sub>2</sub>
		-
Regenerant Concentration	%	H(14-1)
Regenerant Concentration	%	
		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Concentration Regenerant Level Regenerant Flow Rate	% g/L m/h	HCl 4 - 10 H <sub>2</sub> SO <sub>4</sub> 1 - 4 30 - 150 2 - 10

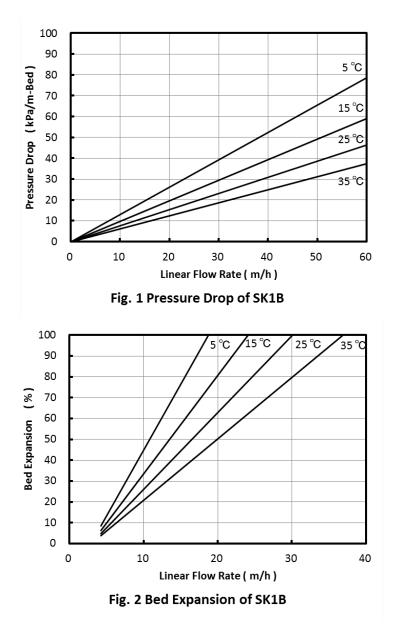




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### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of  $DIAION^{TM}$  SK1B resin in normal down flow operation is shown in the graphs below.

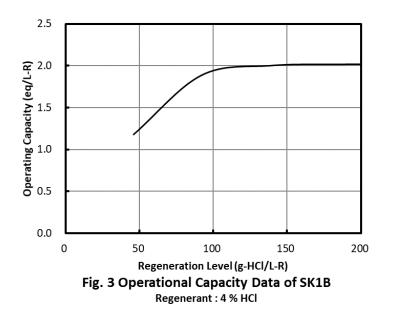






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#### **Operational Capacity Data**



#### Notice

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