Product Data Sheet DIAION[™] SK110

DIAION[™] SK110 is a gel type strongly acidic cation exchange resin. It has 10% 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 [™] SK110
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	%	35 - 45
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 300 μ m	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	850
Mean Particle Size	μm	730
Particle Density	g/mL	1.32
Total Swelling (Na ^{$+$} to H ^{$+$})	%	8
Recommended Operating Conditions		
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 m ³ /m ³ -resin		

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ SK110 resin in normal down flow operation is shown in the graphs below.

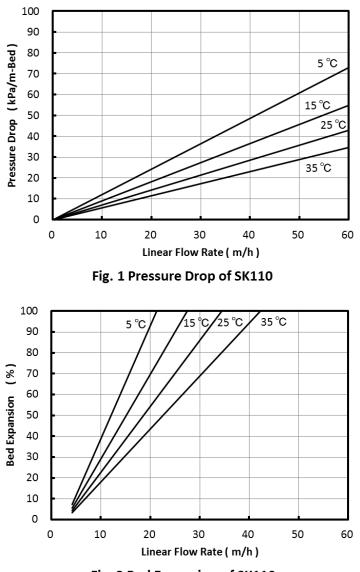
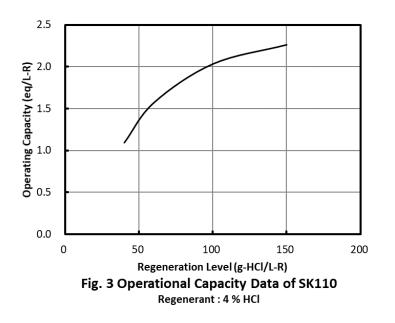


Fig. 2 Bed Expansion of SK110

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Operational Capacity Data



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