Product Data Sheet

DIAION[™] SKN1

DIAION[™] SKN1 is a nuclear grade gel type strongly acidic cation exchange resin. It has standard crosslinkages and excellent properties. It can be used for cleanup system in primary circuit, cleanup system of SFP, radwaste, etc.

Grade Name		DIAION TM SKN:
Туре		Strong Acid Cation
Matrix Functional Group		Styrene-DVB, Gel Sulfonic acid
Specification		
Whole Bead Count	-	90 mir
Salt Splitting Capacity	meq/mL	1.7 mir
Particle Size Distribution thr. 425 μm	%	1.0 max
Particle Size Distribution 425 - 1180 μ m	%	95 mir
Ionic Form Conversion (H^+)	eq%	99 mir
Ionic Form Conversion (Na $^{+}$)	eq%	0.1 max
Metal Content (Ca)	mg/L	50 max
Metal Content (Pb)	mg/L	10 max
Metal Content (Fe)	mg/L	50 max
Metal Content (Cu)	mg/L	10 max
Water Extractables	g/L-R	0.1 max

Typical Properties		
Shipping Density	g/L	790
Water Content	%	54
Mean Particle Size	μm	700
Particle Density	g/mL	1.20
Total Swelling (Na $^+$ to H $^+$)	%	9



Recommended Operating Conditions

Ν	laximum Operating Temperature	°C	120
	Operating pH Range		0 - 14
	Minimum Bed Depth	mm	800
	Service Flow Rate	m/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	m/h	2 - 10
	Total Rinse Requirement	BV	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 $DIAION^{TM}$ SKN1 resin in normal down flow operation is shown in the graphs below.

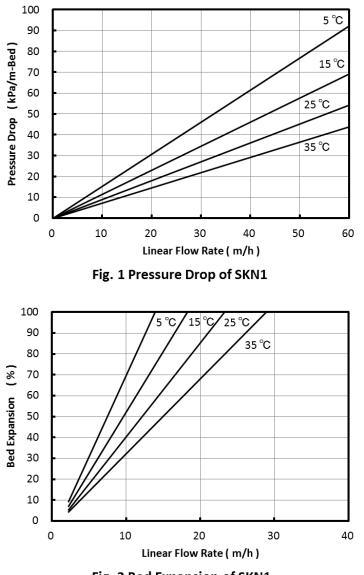


Fig. 2 Bed Expansion of SKN1

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