Product Data Sheet DIAIONTM SKN1

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

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	1104400
DIAION TM SKN1	Grade Name
Strong Acid Cation	Туре
Styrene-DVB, Gel	Matrix
Sulfonic acid	Functional Group
H⁺	Ionic Form

Specification

Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.7 min.
Particle Size Distribution thr. 425 μm	%	1.0 max.
Particle Size Distribution 425 - 1180 μm	%	95 min.
Ionic Form Conversion (H ⁺)	eq%	99 min.
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

Maximum Operating	g Temperature	°C	120
Opera	ting pH Range		0 - 14
Minim	um Bed Depth	mm	800
Sen	vice Flow Rate	m/h	10 - 40
	Regenerant		HCI
			H_2SO_4
Regenerant	Concentration	%	HCl 4 - 10
			H ₂ SO ₄ 1 - 4
Reg	generant Level	g/L	30 - 150
Regenei	ant Flow Rate	m/h	2 - 10
Total Rinse	e Requirement	BV	2 - 10



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM SKN1 resin in normal down flow operation is shown in the graphs below.

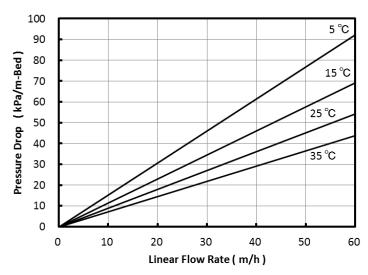


Fig. 1 Pressure Drop of SKN1

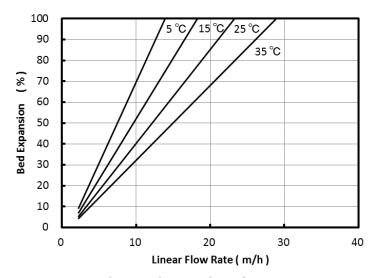


Fig. 2 Bed Expansion of SKN1

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