DIAION[™] SK1BH

DIAION™ SK1BH 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 [™] SK1BH
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Gel
Functional Group		Sulfonic acid
Ionic Form		H ⁺
Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.7 min.
Water Content	%	50 - 60
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion (H ⁺)	eq%	95 min.
Typical Properties		
Shipping Density	g/L	790
Mean Particle Size	μm	700
Particle Density	g/mL	1.20
Total Swelling (Na ⁺ to H ⁺)	%	9
Recommended Operating Condit	ons	
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_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(Red Volume)=1 m ³ /m ³ -resin

1 BV(Bed Volume)=1 m³/m³-resin

SK1BH

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM SK1BH resin in normal down flow operation is shown in the graphs below.

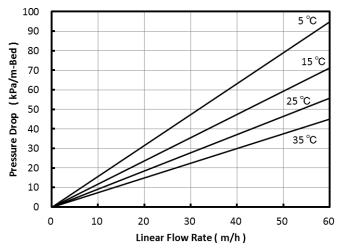


Fig. 1 Pressure Drop of SK1BH

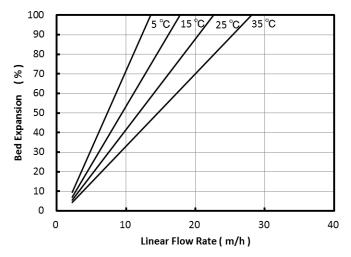


Fig. 2 Bed Expansion of SK1BH

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