## DIAION<sup>™</sup> SKL10

DIAION™ SKL10 is a gel type strongly acidic cation exchange resin. A wide range of applications, especially in a field of purification of amino acid, is recommended.

Product		
Grade Name		DIAION <sup>TM</sup> SKL10
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Gel
Functional Group		Sulfonic acid
Ionic Form		Na <sup>+</sup>
Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	2.0 min.
Water Content	%	41 - 48
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 355 $\mu m$	%	1 max.
Effective Size	mm	0.40 min.
Mean Particle Size	μm	670 - 730
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	860
Particle Density	g/mL	1.30
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	8
Recommended Operating Condit	ions	
Maximum Operating Temperature		120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCI
		H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10
Ü		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
Total Rince Requirement	BV	2 - 10







## **DIAION™ SKL10**

## **Hydraulic Characteristics**

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION<sup>TM</sup> SKL10 resin in normal down flow operation is shown in the graphs below.

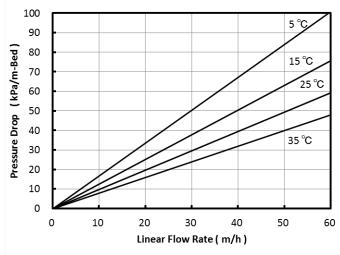


Fig. 1 Pressure Drop of SKL10

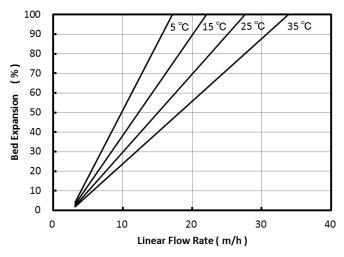


Fig. 2 Bed Expansion of SKL10

## **Notice**

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