DIAION™ UBK10

DIAION™ UBK10 is a cation exchange resin with a uniform particle size. 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 TM UBK10
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	2.2 min.
Water Content	%	38 - 44
Mean Particle Size	μm	650 ± 50
Uniformity Coefficient	-	1.10 max.
Typical Properties		
Shipping Density	g/L	850
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_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 Rince Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin



DIAION[™] **UBK10**

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $\mathsf{DIAION}^\mathsf{TM}$ UBK10 resin in normal down flow operation is shown in the graphs below.

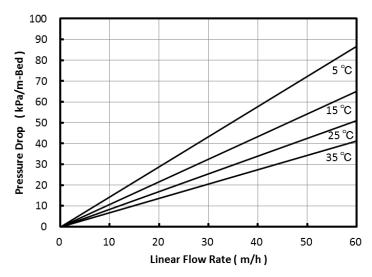


Fig. 1 Pressure Drop of UBK10

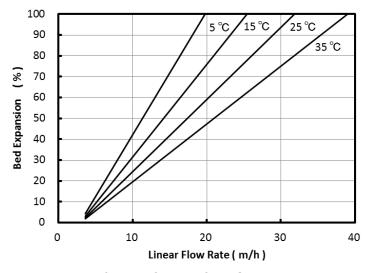


Fig. 2 Bed Expansion of UBK10



Operational Capacity Data

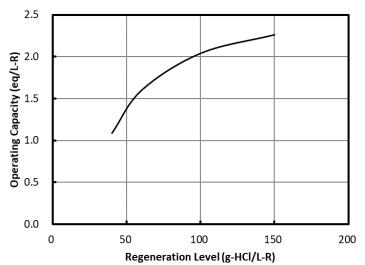


Fig. 3 Operational Capacity Data of UBK10

Regenerant: 4 % HCI

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