Product Data Sheet DIAION[™] UBKN1U

DIAION[™] UBKN1U is a cation exchange resin with a uniform particle size. It has 14% cross-linkages and excellent properties. It is recommended for higher purity water treatment application.

Product		
Grade Name		DIAION [™] UBKN1U
Туре		Strong Acid Catior
Matrix		Styrene-DVB, Ge
Functional Group		Sulfonic acid
Ionic Form		H
Specification		
Whole Bead Count	-	95 min
Salt Splitting Capacity	meq/mL	2.4 min
Water Content	%	33 - 43
Mean Particle Size	μm	650 ± 50
Particle Size Distribution on 1180 μm	%	5 max
Particle Size Distribution thr. 500 μm	%	2 max
Uniformity Coefficient	-	1.2 max
Ionic Form Conversion (H^+)	eq%	99.0 min
Ionic Form Conversion (Na ⁺)	eq%	1.0 max
Outlet Resistivity	MΩ•cm	12 min
ΔΤΟΟ	ppb	50 max
Typical Properties		
Shipping Density	g/L	810
Particle Density	g/mL	1.27
Total Swelling (Na ⁺ to H^+)	%	5



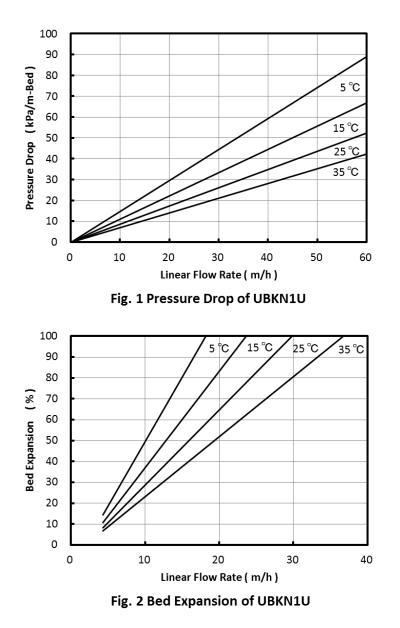
Recommended Operating Conditions

Maximum 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 Rince Requirement	BV	2 - 10



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ UBKN1U resin in normal down flow operation is shown in the graphs below.



Notice

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