

Product Data Sheet

DIAION™ UBK10BH

DIAION™ UBK10BH 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 condensate mineralization for power plants, is recommended.

Product

Grade Name	DIAION™ UBK10BH
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	H ⁺

Specification

Whole Bead Count	-	95 min.
Apparent Density	g/mL	0.78 - 0.84
Salt Splitting Capacity	mmol/mL	2.0 min.
Water Content	%	40 - 50
Particle Size Distribution 0.500 - 0.800 mm	%	95 min.
Particle Size Distribution thr. 0.500 mm	%	1 max.
Effective Size	mm	0.550 - 0.700
Uniformity Coefficient	-	1.1 max.
Particle Density	g/mL	1.20 - 1.26
Sphericity after osmotic-attrition	%	90 min.
Ionic Conversion (H ⁺)	eq%	99 min.
Ionic Conversion (Na ⁺)	eq%	0.1 max.

Typical Properties

Average Diameter	μm	660
Total Swelling (Na ⁺ to H ⁺)	%	8



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DIAION™ UBK10BH**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		HCl
		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 Rinse Requirement	BV	2 - 10



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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBK10BH resin in normal down flow operation is shown in the graphs below.

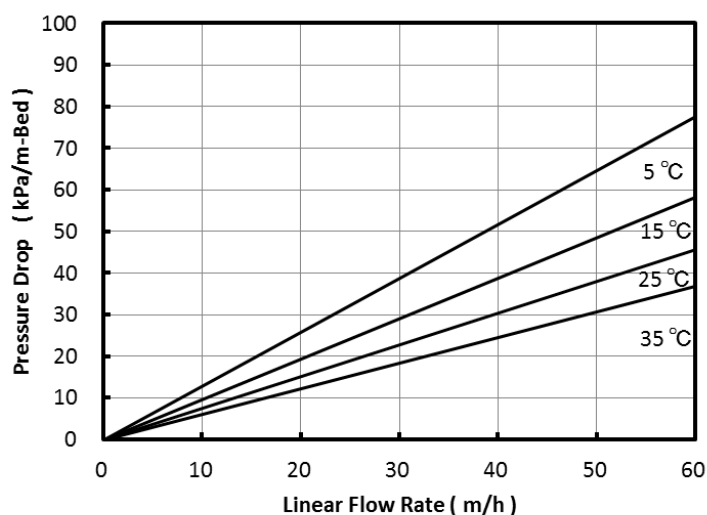


Fig. 1 Pressure Drop of UBK10BH

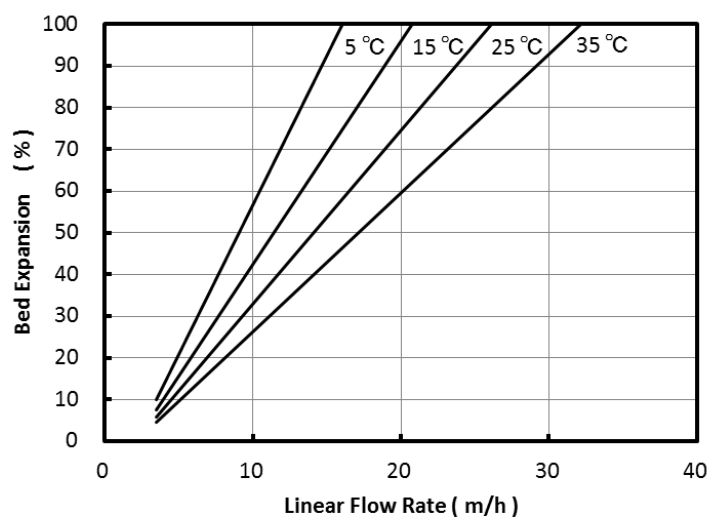


Fig. 2 Bed Expansion of UBK10BH

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