

Product Data Sheet

DIAION™ UBK10B

DIAION™ UBK10B 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™ UBK10B
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	Na ⁺

Specification

Whole Bead Count	-	95 min.
Apparent Density	g/mL	0.80 - 0.90
Salt Splitting Capacity	mmol/mL	2.2 min.
Water Content	%	35 - 45
Partocle Size Distribution 0.500 - 0.850 mm	%	95 min.
Partocle Size Distribution thr. 0.500 mm	%	1 max.
Effective Size	mm	0.55 - 0.70
Uniformity Coefficient	-	1.1 max.
Particle Density	g/mL	1.30 - 1.36
Sphericity after osmotic-attribution	%	90 min.

Typical Properties

Average Diameter	μm	650
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	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

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBK10B resin in normal down flow operation is shown in the graphs below.

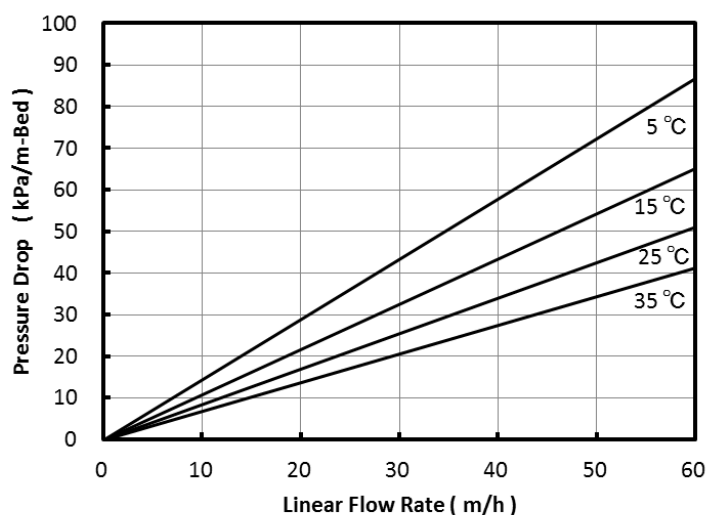


Fig. 1 Pressure Drop of UBK10B

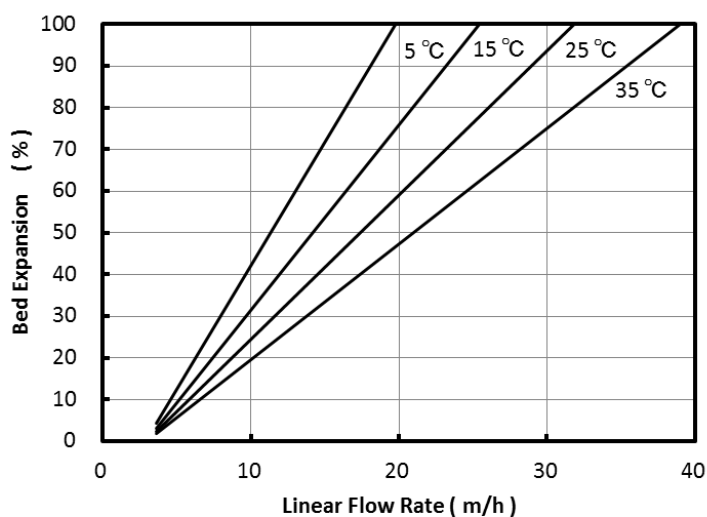


Fig. 2 Bed Expansion of UBK10B

Notice

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