

## 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 <sup>+</sup>

## 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

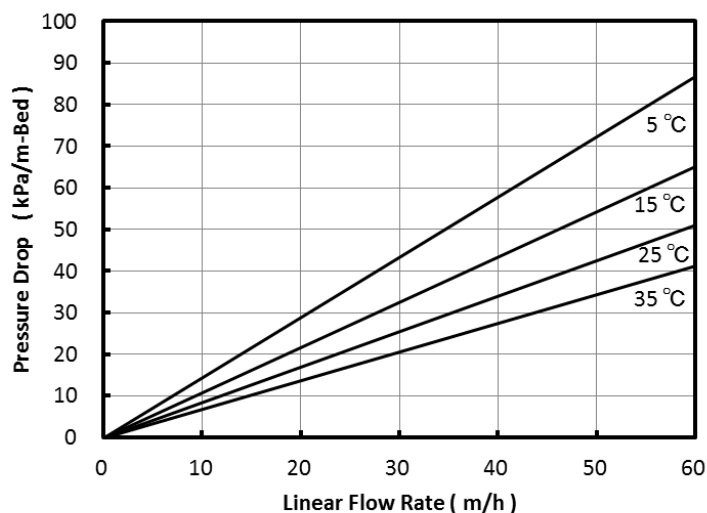
Average Diameter	μm	650
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	8

## Recommended Operating Conditions

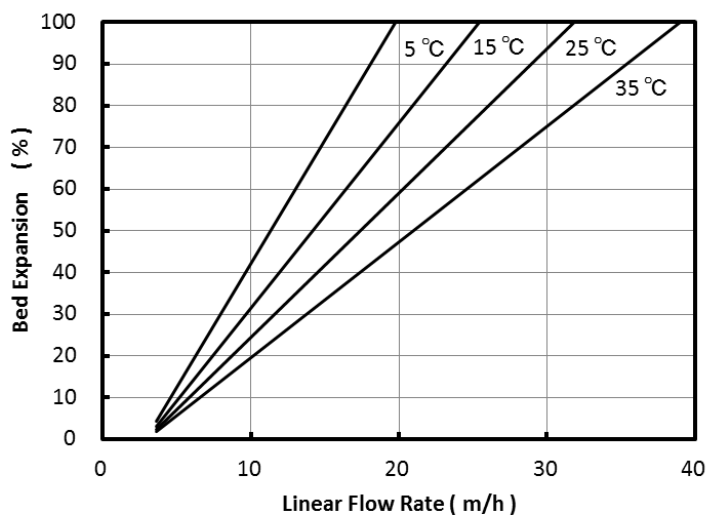
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCl
		H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10
		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 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

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.



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