

## Product Data Sheet

## DIAION™ UBAN1

DIAION™ UBAN1 is a nuclear grade anion exchange resin with a uniform particle size. It has a higher cross-linkages and excellent properties. It can be used in cleanup system in primary circuit, cleanup system of SFP, radwaste, etc.

### Product

Grade Name	DIAION™ UBAN1	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH <sup>-</sup>	

### Specification

Salt Splitting Capacity	meq/mL	1.2 min.
Particle Size Distribution on 1180 μm	%	0.5 max.
Particle Size Distribution thr. 425 μm	%	1.0 max.
Mean Particle Size	μm	630 ± 50
Uniformity Coefficient	-	1.2 max.
Ionic Form Conversion OH Form	eq%	95 min.
Ionic Form Conversion CO <sub>3</sub> Form	eq%	5 max.
Ionic Form Conversion Cl Form	eq%	0.2 max.
Metal Content (Ca)	mg/L	50 max.
Metal Content (Pb)	mg/L	10 max.
Metal Content (Fe)	mg/L	50 max.
Metal Content (Cu)	mg/L	10 max.
Water Extractables	g/L-R	0.1 max.

### Typical Properties

Shipping Density	g/L	720
Particle Density	g/mL	1.08
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	22



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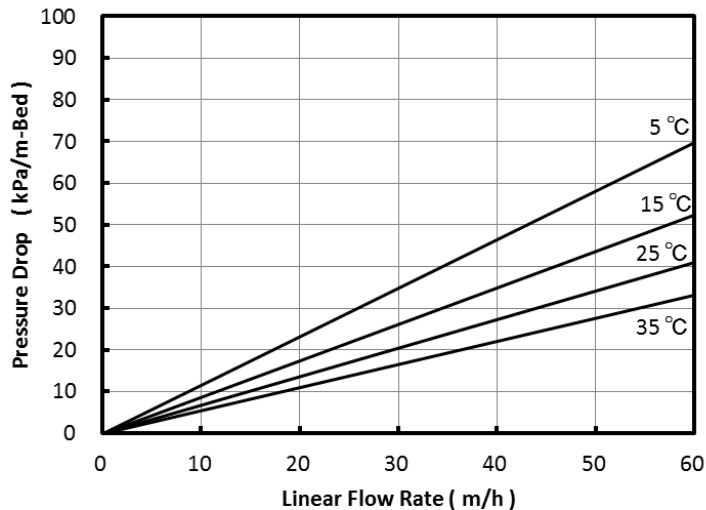
## DIAION™ UBAN1

## Recommended Operating Conditions

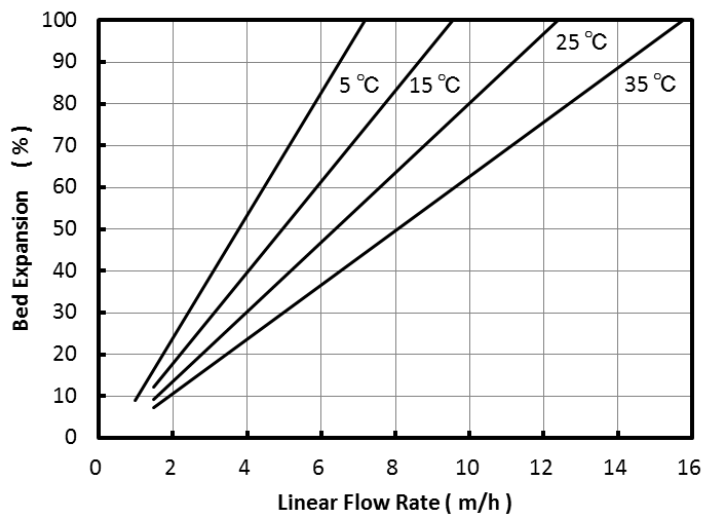
Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
Operating pH Range		0 - 14
Minimum Bed Depth	mm	450
Service Flow Rate	m/h	Fast Rinse 5 - 60 Condensate Polishing 40 - 150
Regenerant		NaOH
Regenerant Concentration	%	NaOH 4 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	1 - 10
Total Rinse Requirement	BV	2 - 5

### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBAN1 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of UBAN1**



**Fig. 2 Bed Expansion of UBAN1**

### Notice

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