

## 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



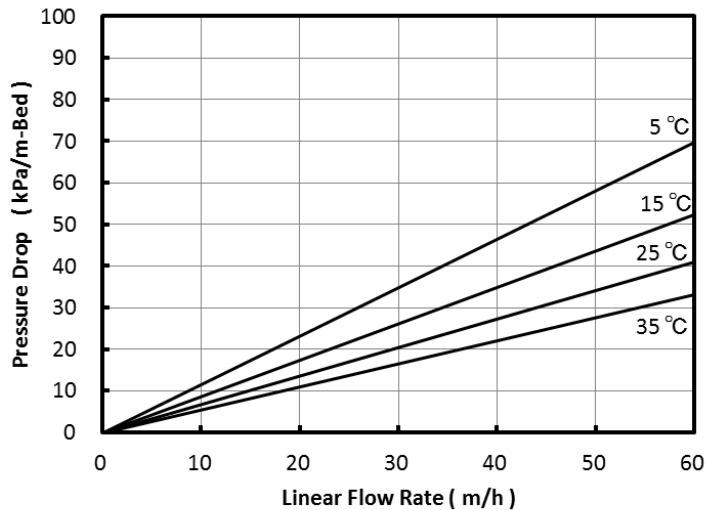
**Recommended Operating Conditions**

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

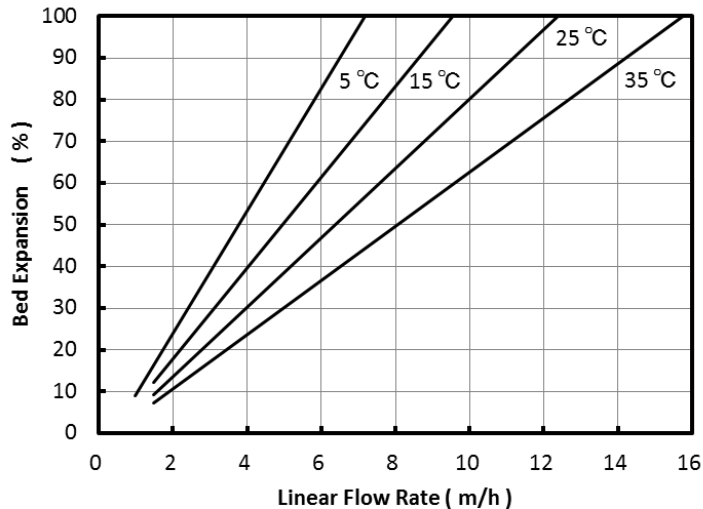


### Hydraulic Characteristics

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

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.

