

Product Data Sheet

DIAION™ UBAN1

DIAION™ UBAN1 is an anion exchange resin with a uniform particle size. It has a higher cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water in power plants, is recommended.

Product

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

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.2 min.
Average Diameter	μm	630 ± 50
Particle Size Distribution on 1180 μm	%	0.5 max.
Particle Size Distribution 425 - 1180 μm	%	98 min.
Particle Size Distribution thr. 425 μm	%	1.0 max.
Uniformity Coefficient	-	1.2 max.
Ionic Conversion (OH ⁻)	eq%	95 min.
Ionic Conversion (CO ₃ ²⁻)	eq%	5 max.
Ionic Conversion (Cl ⁻)	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.
Batch Extractable TOC	mg/L	10 max.

Typical Properties

Shipping Density	g/L	720
Particle Density	g/mL	1.08
Total Swelling (Cl ⁻ to OH ⁻)	%	22



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DIAION™ UBAN1**Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl ⁻) 60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 8
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™ UBAN1 resin in normal down flow operation is shown in the graphs below.

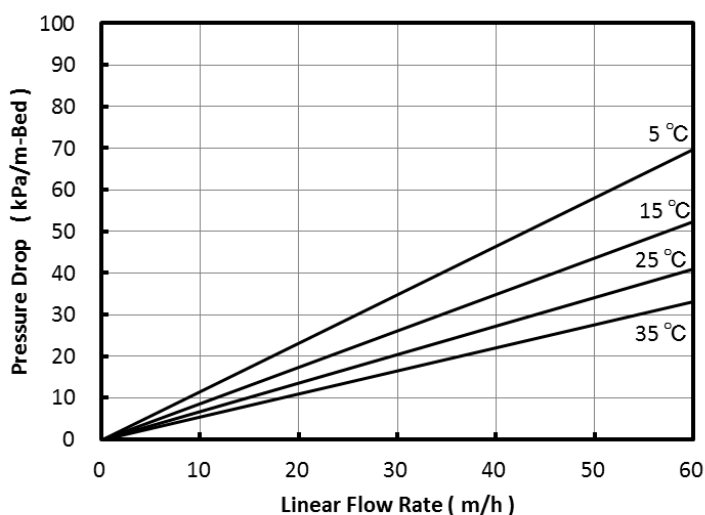


Fig. 1 Pressure Drop of UBAN1

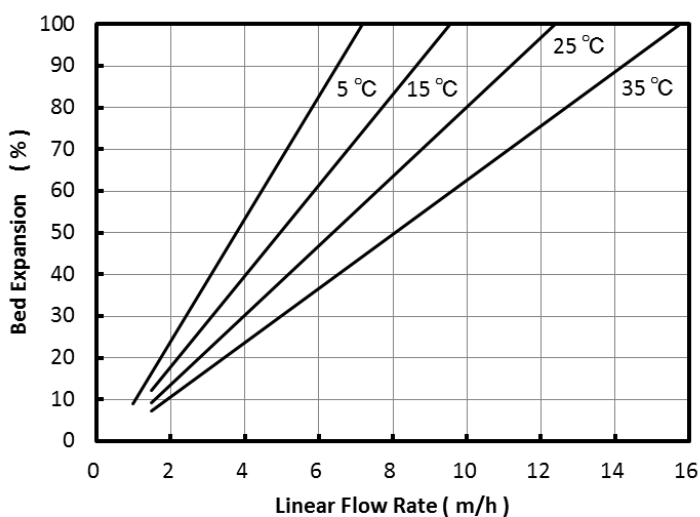


Fig. 2 Bed Expansion of UBAN1

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