

Product Data Sheet

DIAION™ UBA120

DIAION™ UBA120 is an anion exchange resin with a uniform particle size. It has a standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

Product

Grade Name	DIAION™ UBA120	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	Cl ⁻	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	49 - 55
Mean Particle Size	μm	575 ± 50
Uniformity Coefficient	-	1.10 max.

Typical Properties

Shipping Density	g/L	680
Particle Density	g/mL	1.08
Total Swelling (Cl ⁻ to OH ⁻)	%	24

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl ⁻) 60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	BV/h	2 - 8
Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBA120 resin in normal down flow operation is shown in the graphs below.

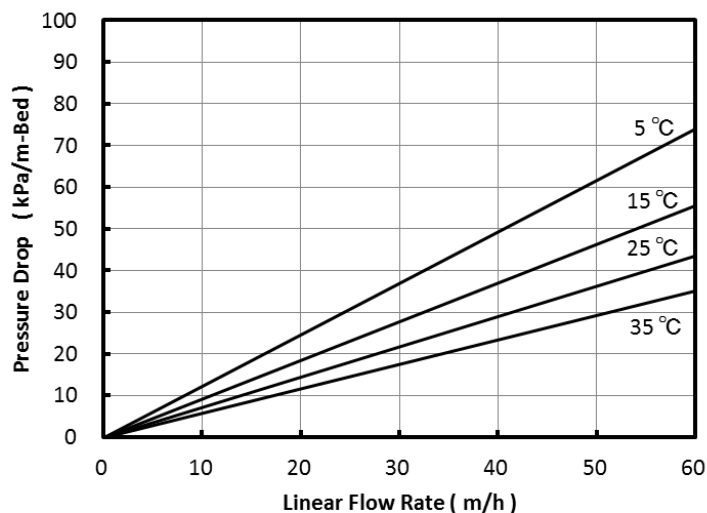


Fig. 1 Pressure Drop of UBA120

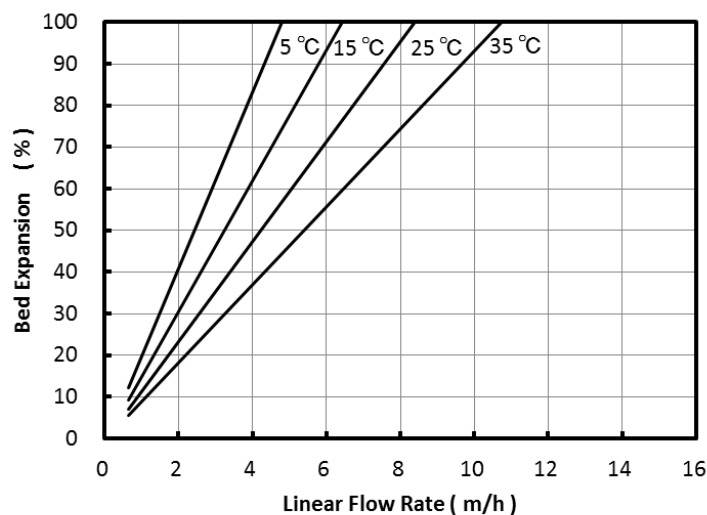


Fig. 2 Bed Expansion of UBA120

Operational Capacity Data

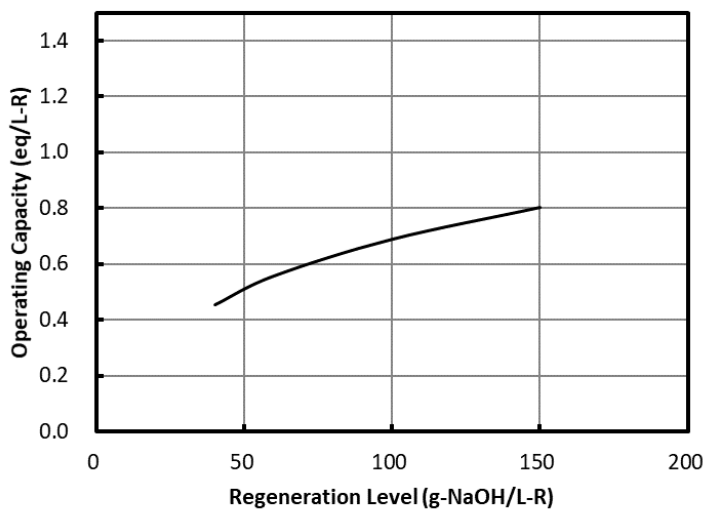


Fig. 3 Operational Capacity Data of UBA120

Regenerant : 4 % NaOH

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