Product Data Sheet

DIAION™ UBA10AOH

DIAION™ UBA10AOH 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 for condensate polishing in power plants, is recommended.

Product

Grade Name	DIAION™ UBA10AOH
Type	Strong Base Anion
Matrix	Styrene-DVB, Gel
Functional Group	Type I (trimethyl ammonium groups)
Ionic Form	OH⁻

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	mmol/mL	0.9 min.
Water Content	%	55 - 65
Particle Size Distribution 400 - 800 µm	%	95 min.
Particle Size Distribution on 800 µm	%	1 max.
Mean Particle Size	µm	550 ± 50
Uniformity Coefficient	-	1.10 max.
Ionic Form Conversion OH Form	eq%	90 min.
Ionic Form Conversion CO_3 Form	eq%	10 max.
Ionic Form Conversion Cl Form	eq%	1 max.

Typical Properties

Shipping Density	g/L	660
Particle Density	g/mL	1.07
Total Swelling (Cl⁻ to OH⁻)	%	23

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl⁻)
		60 (OH⁻)
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

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBA10AOH resin in normal down flow operation is shown in the graphs below.
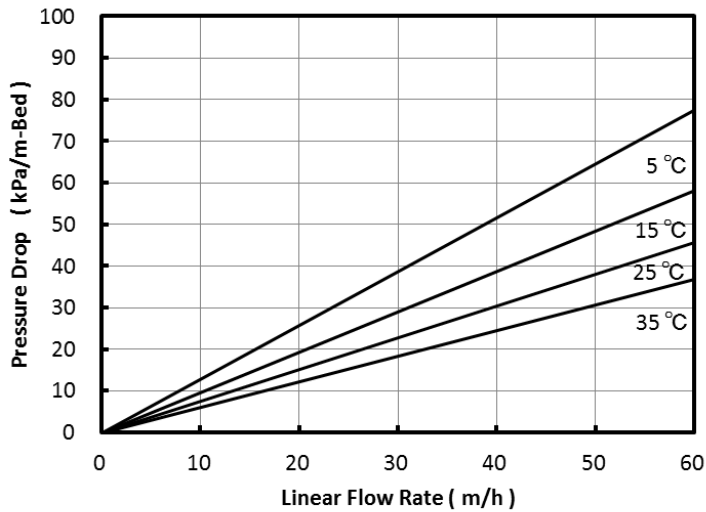

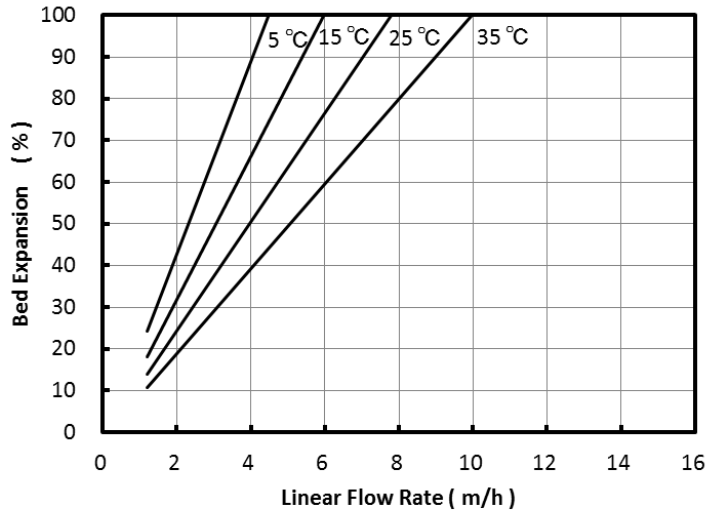**Fig. 1 Pressure Drop of UBA10AOH**

Fig. 2 Bed Expansion of UBA10AOH

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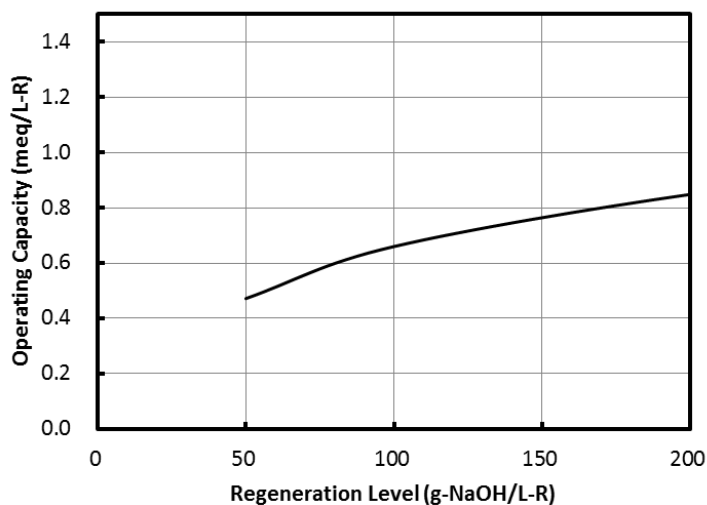
Operational Capacity Data

Fig. 3 Operational Capacity Data of UBA10AOH
Regenerant : 4 % NaOH

Notice

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