Product Data Sheet

DIAION™ UBK08

DIAION™ UBK08 is a cation exchange resin with a uniform particle size. It has 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™ UBK08
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	Na^+

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	2.0 min.
Water Content	%	43 - 49
Mean Particle Size	µm	600 ± 50
Uniformity Coefficient	-	1.10 max.

Typical Properties

Shipping Density	g/L	840
Particle Density	g/mL	1.28
Total Swelling (Na^+ to H^+)	%	9

Recommended Operating Conditions

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Pretreatment befor use		demi water
	BV	10 - 20
Pretreatment Flow Rate	BV/h	10 - 40
Service Flow Rate	m/h	10 - 40
Regenerant		HCl
		H_2SO_4
Regenerant Concentration	%	HCl 4 - 10
		H_2SO_4 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
Total Rinse Requirement	BV	2 - 10

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBK08 resin in normal down flow operation is shown in the graphs below.

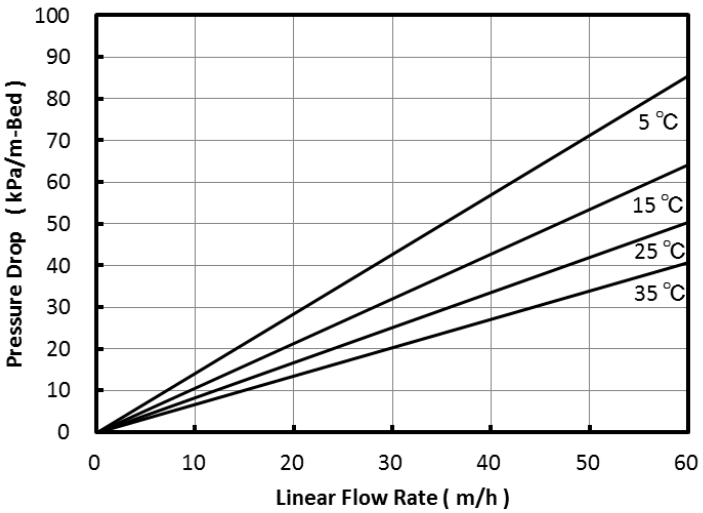

Fig. 1 Pressure Drop of UBK08

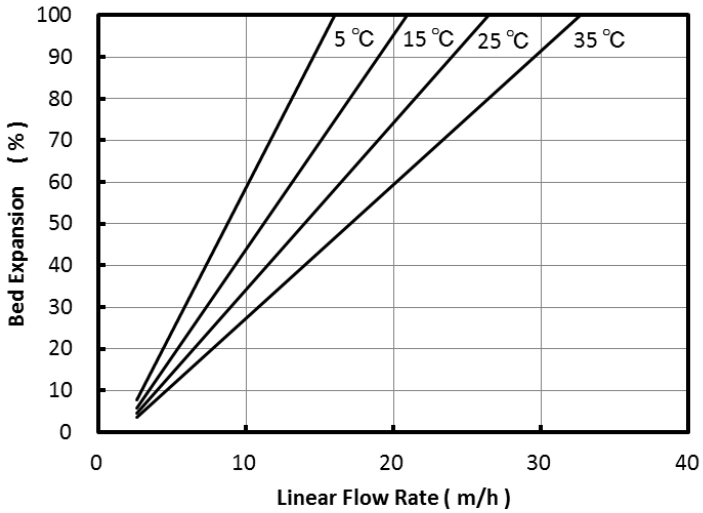

Fig. 2 Bed Expansion of UBK08

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Operational Capacity Data

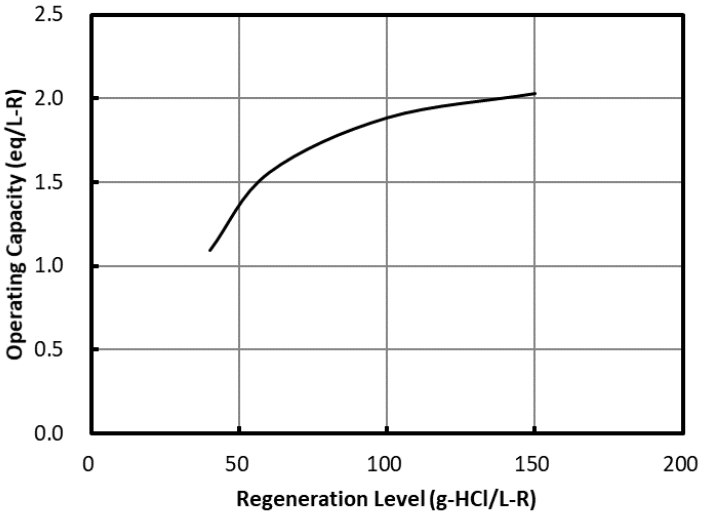

Fig. 3 Operational Capacity Data of UBK08

Regenerant : 4 % HCl

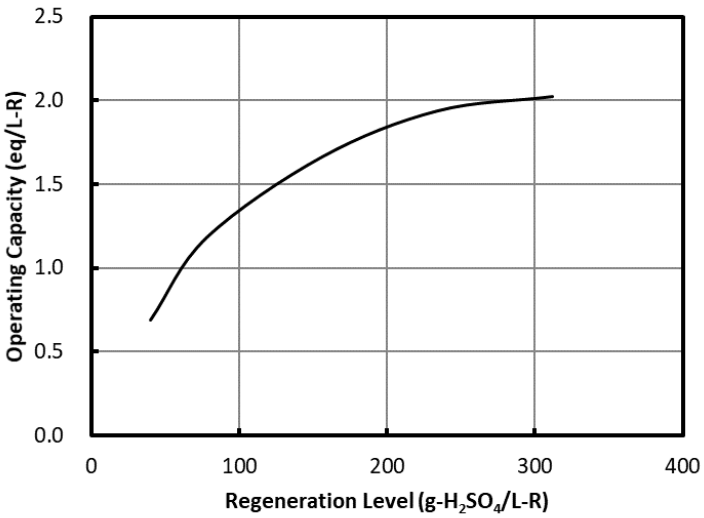

Fig. 4 Operational Capacity Data of UBK08

Regenerant : 3.5 % H_2SO_4

Notice