

## Product Data Sheet

## DIAION™ CRB05

DIAION™ CRB05 is a glucamine type chelating resin. It has a high selectivity for borate ion and higher capacity than DIAION™ CRB03. It is recommended for borate separation process from various solutions, including brines, sea water and waste water.

### Product

Grade Name	DIAION™ CRB05	
Type	Chelating Resin	
Matrix	Styrene-DVB, Highly Porous	
Chemical Structure		
Functional Group	N-Methyl Glucamine	
Ionic Form	Free Base	

### Specification

Whole Bead Count	-	95 min.
Total Exchange Capacity	meq/mL	0.95 min.
Water Content	%	43 - 53
Particle Size Distribution on 850 μm	%	10 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.35 min.
Uniformity Coefficient	-	1.6 max.

### Typical Properties

Shipping Density	g/L	750
Mean Particle Size	μm	550
Boron Adsorption Capacity	mg/mL-R	25
Particle Density	g/mL	1.13
Total Swelling (FB to Cl)	%	11



**DIAION™ CRB05****Recommended Operating Conditions**

Maximum Operating Temperature	°C	100
Effective pH Range		6 - 10
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	5 - 20
Eluate		HCl
Eluate Concentration	%	HCl 2 - 4
Eluate Level	g/L	50 - 100
Eluate Flow Rate	m/h	1 - 3
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 4
Regenerant Level	g/L	20 - 40
Regenerant Flow Rate	m/h	1 - 3
Total Rinse Requirement	BV	10 - 20



### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ CRB05 resin in normal down flow operation is shown in the graphs below.

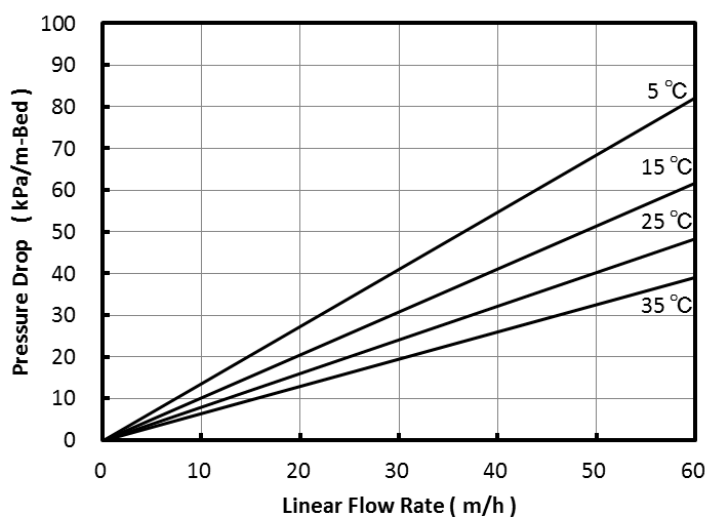


Fig. 1 Pressure Drop of CRB05

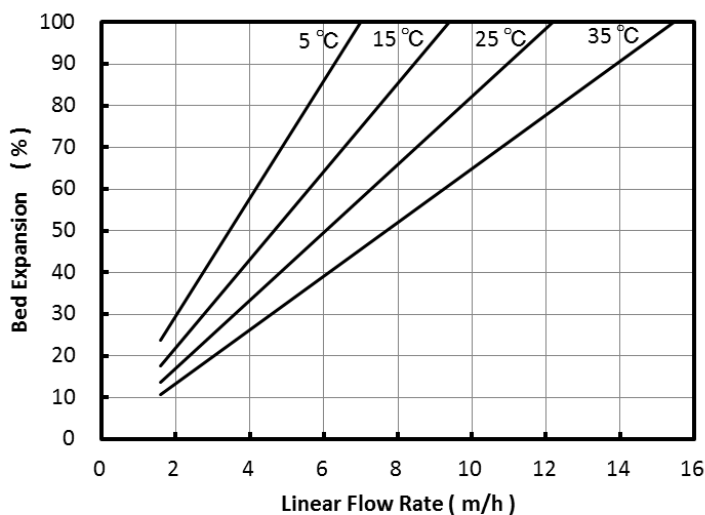


Fig. 2 Bed Expansion of CRB05

### Notice

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