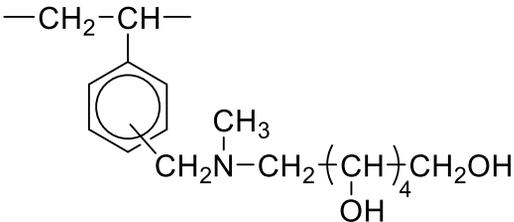


Product Data Sheet

DIAION™ CRB03

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

Product

Grade Name	DIAION™ CRB03	
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	0.7 min.
Water Content	%	45 - 55
Particle Size Distribution thr. 300 µm	%	1 max.
Effective Size	mm	0.35 - 0.55
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	670
Mean Particle Size	µm	550
Adsorption Isotherm of Boric Acid	mg/mL-R	20
Particle Density	g/mL	1.11
Total Swelling (FB to Cl ⁻)	%	10


Biokal

© +31529485928


 info@biokal.com
<https://www.biokal.com>

**MITSUBISHI
CHEMICAL**

DIAION™ CRB03**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
		H ₂ SO ₄
Eluate Concentration	%	HCl 2 - 4
		H ₂ SO ₄ 1 - 5
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™ CRB03 resin in normal down flow operation is shown in the graphs below.

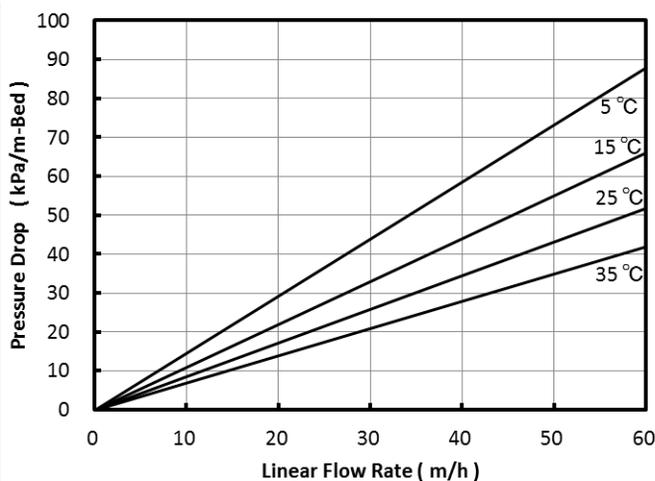


Fig. 1 Pressure Drop of CRB03

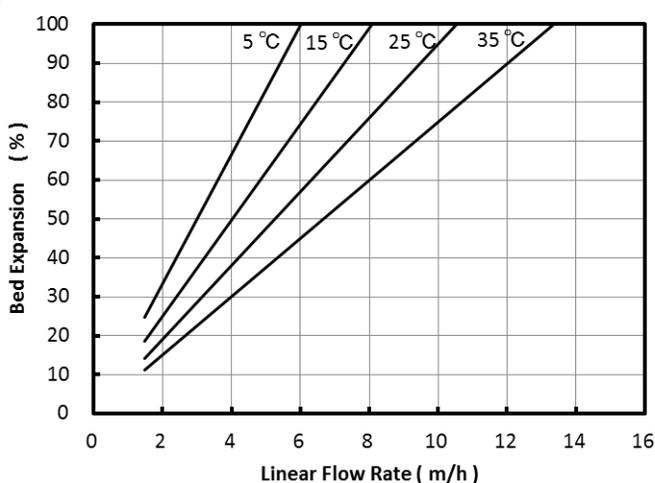


Fig. 2 Bed Expansion of CRB03

Notice

DIAION™ is a registered trademark of Mitsubishi Chemical Corporation. The information contained herein is believed to be true and accurate, but all data, recommendations and suggestions are provided without guarantee, since the conditions of use are beyond our control and can affect the performance and properties of our products. The user is solely responsible for confirming that our product is suitable for the intended end use, and for compliance with all legal regulations and patents. Other than compliance with published Mitsubishi Chemical Corporation specifications agreed to pursuant to a signed writing during the warranty period, and except as required by law, MITSUBISHI CHEMICAL CORPORATION AND ITS AFFILIATES MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If a product is found to be defective during the warranty period, user's sole remedy and our sole obligation is, at our option, replacement of the affected product or refund of the purchase price. Except as required by law, we are not liable for any damage, harm or loss resulting from our product, whether direct, indirect, consequential, incidental or special, and irrespective of legal theory asserted, including strict liability, contract, warranty, or negligence.

