

Product Data Sheet

DIAION™ PA418

DIAION™ PA418 is a porous type strongly basic anion exchange resin. It is type II resin and has a 9% cross-linkages. A wide range of applications, especially in a field of manufacturing pure water and waste water treatment, is recommended.

Product

Grade Name	DIAION™ PA418	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type II (dimethylethanol ammonium groups)	
Ionic Form	Cl ⁻	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	38 - 44
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	670
Mean Particle Size	μm	710
Particle Density	g/mL	1.11
Total Swelling (Cl ⁻ to OH ⁻)	%	11

Recommended Operating Conditions

Maximum Operating Temperature	°C	60 (Cl ⁻) 40 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 8
Total Rinse Requirement	BV	2 - 10



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA418 resin in normal down flow operation is shown in the graphs below.

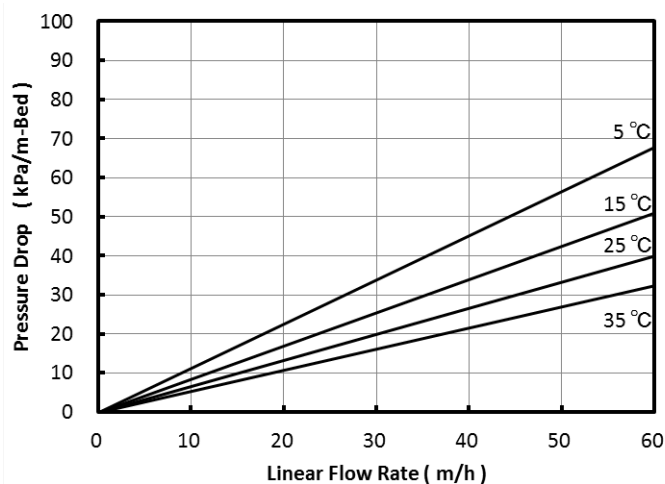


Fig. 1 Pressure Drop of PA418

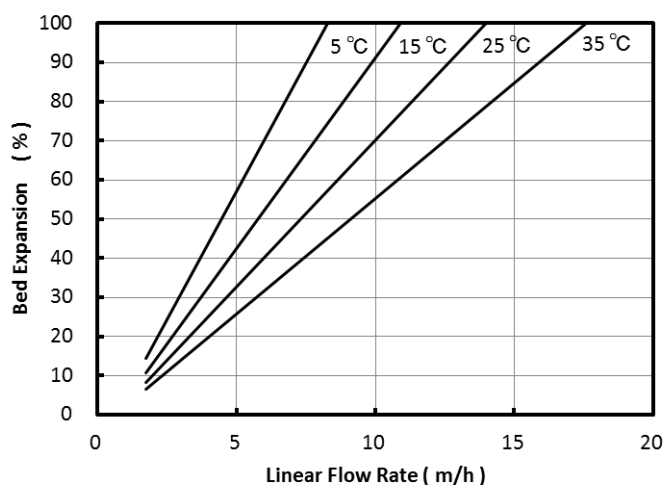


Fig. 2 Bed Expansion of PA418

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.

