

## Product Data Sheet

## DIAION™ PA312

DIAION™ PA312 is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing pure water and waste water treatment, is recommended.

## Product

Grade Name	DIAION™ PA312	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	Cl <sup>-</sup>	

## Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.2 min.
Water Content	%	49 - 55
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	680
Mean Particle Size	μm	640
Particle Density	g/mL	1.07
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	23

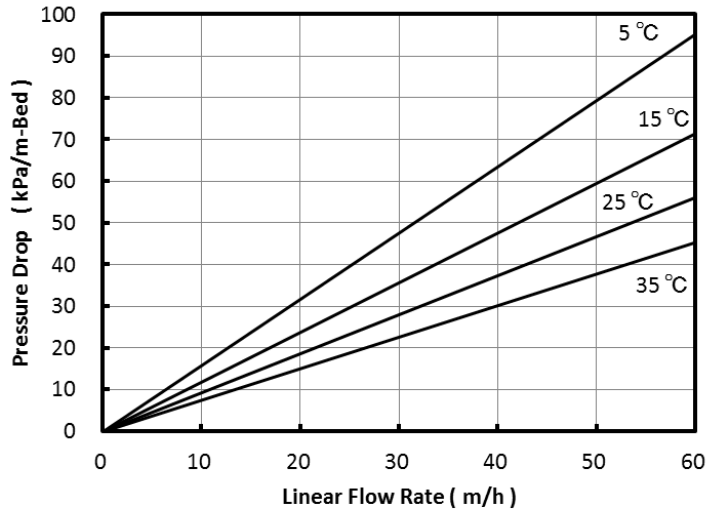
## Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
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

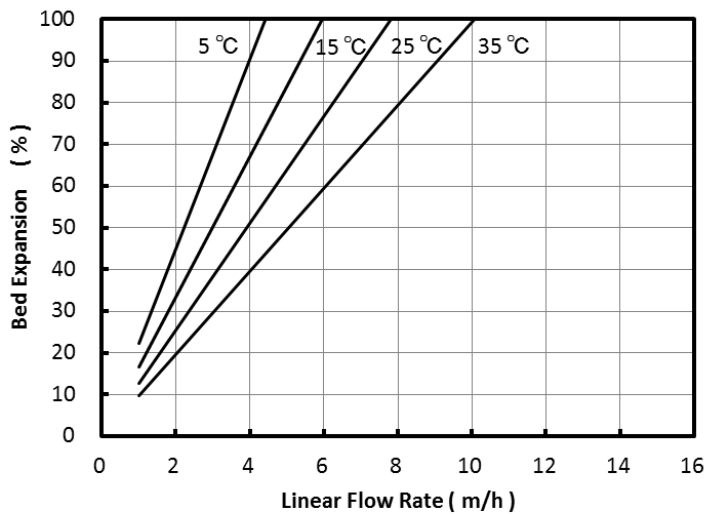


### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA312 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of PA312**



**Fig. 2 Bed Expansion of PA312**

### Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.