## DIAION<sup>™</sup> 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 wastewater treatment, is recommended.

Product		
Grade Name		DIAION <sup>TM</sup> PA312
Туре		Strong Base Anion
Matrix		Styrene-DVB, Porous
Functional Group	Ty	pe I (trimethyl ammonium groups)
Ionic Form		Cl¯
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 to OH)	%	23
Recommended Operating Conditions		
Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> )
		60 (OH⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	BV/h	2 - 8
Total Rinse Requirement	BV	2 - 10
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1 BV(Bed Volume)=1 m³/m³-resin

## **Hydraulic Characteristics**

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

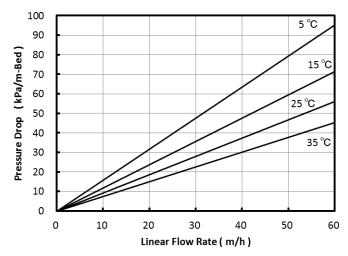


Fig. 1 Pressure Drop of PA312

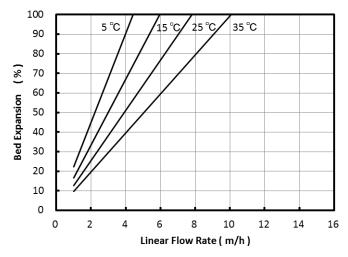


Fig. 2 Bed Expansion of PA312

## **Notice**

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