

Product Data Sheet

DIAION™ PA312LOH

DIAION™ PA312LOH 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™ PA312LOH	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH ⁻	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.9 min.
Water Content	%	58.0 - 68.0
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	5 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion OH Form	eq%	90 min.

Typical Properties

Shipping Density	g/L	680
Mean Particle Size	μm	700
Ionic Form Conversion CO ₃ Form	eq%	2.3
Ionic Form Conversion Cl Form	eq%	0.27
Particle Density	g/mL	1.07
Total Swelling (Cl ⁻ to OH ⁻)	%	23

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl ⁻) 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

1 BV(Bed Volume)=1 m³/m³-resin

Mitsubishi Chemical Corporation

please visit <http://www.diaion.com/en>

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA312LOH resin in normal down flow operation is shown in the graphs below.

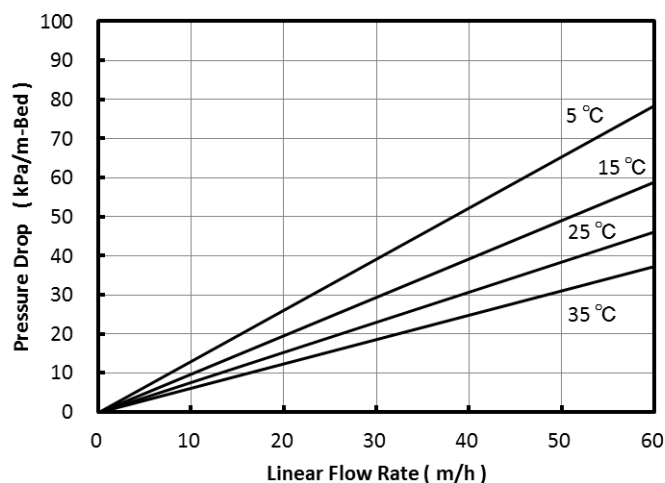


Fig. 1 Pressure Drop of PA312LOH

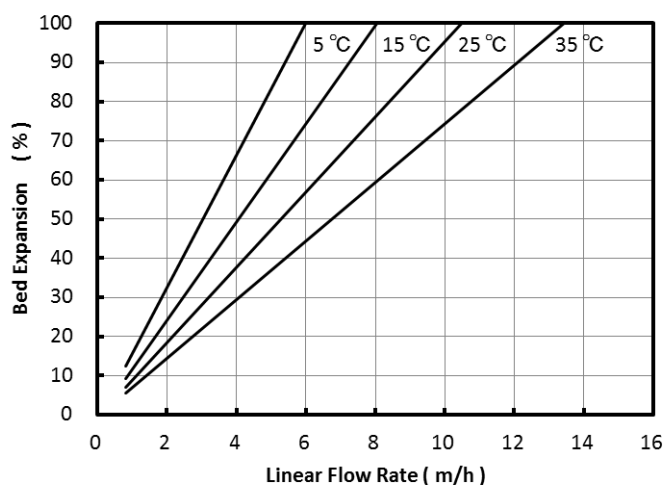


Fig. 2 Bed Expansion of PA312LOH

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