NaOH

NaOH 2 - 8

50 - 200

2 - 8

2 - 10

DIAION[™] PA312LTU

DIAION™ PA312LTU is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. It is recommended for higher purity water treatment application.

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Product			
Grade Name	DIAION [™] PA312LTU		
Туре	Strong Base Anio		
Matrix		Styrene-DVB, Porous	
Functional Group	Туре	e I (trimethyl ammonium groups)	
Ionic Form		OH ⁻	
Specification			
Whole Bead Count	-	95 min.	
Salt Splitting Capacity	meq/mL	0.85 min.	
Water Content	%	58 - 68	
Particle Size Distribution on 1180 μm	%	5 max.	
Particle Size Distribution thr. 425 μm	%	5 max.	
Effective Size	mm	0.42 min.	
Uniformity Coefficient	-	1.6 max.	
Ionic Form Conversion OH Form	eq%	80 min.	
Ionic Form Conversion CO ₃ Form	eq%	15 max.	
Ionic Form Conversion Cl Form	eq%	0.2 max.	
ΔΤΟC	ppb	10 max.	
Outlet Resistivity	MΩ·cm	15 min.	
Typical Properties			
Shipping Density	g/L	650	
Mean Particle Size	μm	690	
Particle Density	g/mL	1.07	
Total Swelling (Cl to OH)	%	23	
Recommended Operating Condit	ions		
Maximum Operating Temperature	°C	80 (Cl ⁻)	
		60 (OH ⁻)	
Operating pH Range		0 - 14	
Minimum Bed Depth	mm	800	
Service Flow Rate	m/h	10 - 60	
	•		



%

g/L

m/h

 BV

Regenerant

Regenerant Level

Regenerant Flow Rate

Total Rinse Requirement

Regenerant Concentration

DIAION[™] PA312LTU

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM PA312LTU resin in normal down flow operation is shown in the graphs below.

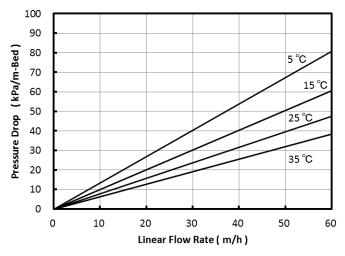


Fig. 1 Pressure Drop of PA312LTU

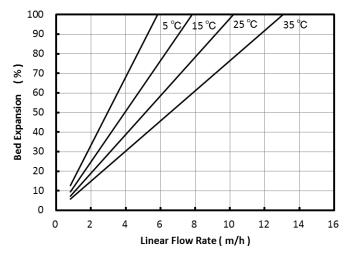


Fig. 2 Bed Expansion of PA312LTU

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