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.

Product		
Grade Name		DIAION TM PA312LTU
Туре		Strong Base Anion
Matrix		Styrene-DVB, Porous
Functional Group	Тур	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 Conditi	ons	
Maximum Operating Temperature	°C	80 (Cl ⁻)
		60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
· •	m/h	10 - 60
Service Flow Rate		=0 00
Service Flow Rate Regenerant	•	NaOH
Service Flow Rate Regenerant Regenerant Concentration	%	NaOH NaOH 2 - 8

Regenerant Flow Rate

Total Rinse Requirement

m/h

BV

2 - 8

2 - 10

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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.

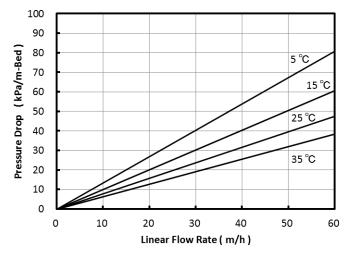


Fig. 1 Pressure Drop of PA312LTU

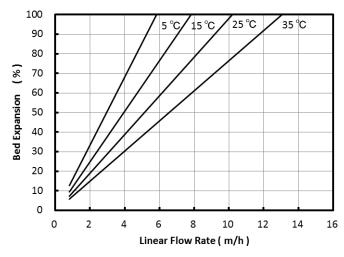


Fig. 2 Bed Expansion of PA312LTU

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