DIAION[™] PA316

DIAION™ PA316 is a porous type strongly basic anion exchange resin. It has an 8% 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 [™] PA316	
Туре	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form		Cl
Specification		
Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	44 - 50
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	670
Mean Particle Size	μm	710
Particle Density	g/mL	1.08
Total Swelling (Cl to OH)	%	19
Recommended Operating Conditi	ons	
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

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM PA316 resin in normal down flow operation is shown in the graphs below.

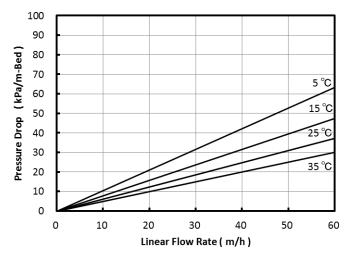


Fig. 1 Pressure Drop of PA316

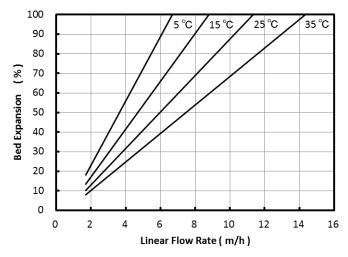


Fig. 2 Bed Expansion of PA316

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