DIAION[™] WA55

DIAION™ WA55 is a porous type weakly basic anion exchange resin. It has tertiary amine and quaternary ammonium functionality. A wide range of applications, especially in a field of demineralization of food and beverage, especially whey products, is recommended.

Product		
Grade Name		DIAION TM WA55
Туре		Weak Base Anion
Matrix		Styrene-DVB, Porous
Functional Group	Ter	tiary / Quaternary Amine
lonic Form		Cl
Specification		
Whole Bead Count*	-	90 min.
Water Content*	%	60 - 65
Volume Change (CI/OH)	-	1.2 max.
Total Capacity*	meq/mL	1.1 - 1.3
Salt Splitting Capacity*	meq/mL	0.6 - 0.7
Salt Splitting Ratio*	%	50 - 60
α-LA Adsorption*	g/L-R	1.0 max.
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.
	Items marked * a	are measured in OH form
Typical Properties		
Shipping Density	g/L	690
Mean Particle Size*	μm	600
Particle Density	g/mL	1.07
	Items marked *	are measured in OH form
Recommended Operating Conditions		
Maximum Operating Temperature	°C	100
Operating pH Range		0 - 9
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		NaOH
Regenerant Concentration	%	NaOH 1 - 4
Regenerant Level	% of ionic load	120

1 BV(Bed Volume)=1 m³/m³-resin

2 - 6

5 - 10

BV/h

BV



Regenerant Flow Rate

Total Rinse Requirement

DIAION[™] WA55

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM WA55 resin in normal down flow operation is shown in the graphs below.

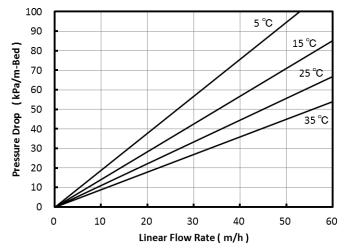


Fig. 1 Pressure Drop of WA55

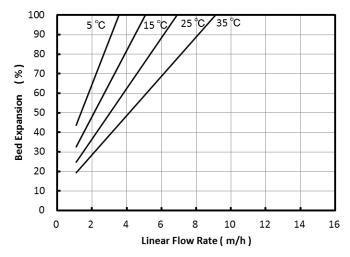


Fig. 2 Bed Expansion of WA55

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