DIAION™ WA10

DIAION $^{\text{\tiny{M}}}$ WA10 is an acrylic type weakly basic anion exchange resin. It has tertiary amine functionality with high regeneration efficiency. A wide range of applications, especially in a field of pretreatment of starch hydrolysates containing purification of dextrose, beet sugar solutions, and formaldehyde, is recommended.

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Product					
Grade Name		DIAION TM WA10			
Туре		Weak Base Anion			
Matrix		Acrylic-DVB, Gel			
Functional Group		Tertiary Amine			
lonic Form		Free Base			
Specification					
Whole Bead Count	-	90 min.			
Total Exchange Capacity	meq/mL	1.2 min.			
Water Content	%	63 - 69			
Particle Size Distribution on 1180 μm	%	5 max.			
Particle Size Distribution thr. 300 μm	%	1 max.			
Effective Size	mm	0.35 min.			
Uniformity Coefficient	-	1.6 max.			
Typical Properties					
Shipping Density	g/L	690			
Mean Particle Size	μm	510			
Particle Density	g/mL	1.05			
Total Swelling (FB to Cl ⁻)	%	22			
Recommended Operating Conditions					
Maximum Operating Temperature	°C	60			
Operating pH Range		0 - 9			
Minimum Bed Depth	mm	800			
Service Flow Rate	m/h	10 - 40			
Regenerant		NaOH			
Regenerant Concentration	%	NaOH 1 - 4			
Regenerant Level	% of ionic load	120			
Regenerant Flow Rate	m/h	2 - 6			
Total Rinse Requirement	BV	5 - 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 WA10 resin in normal down flow operation is shown in the graphs below.

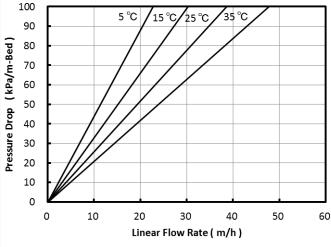


Fig. 1 Pressure Drop of WA10

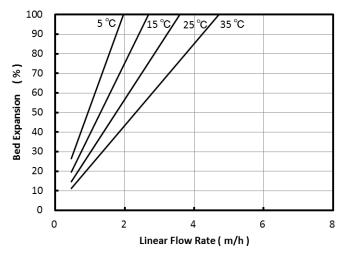


Fig. 2 Bed Expansion of WA10

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