## DIAION<sup>™</sup> WA30

DIAION™ WA30 is a highly porous 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 removal of organic substances, pretreatment of raw waters containing organic foulants, deionization and decolorization of starch hydrolysates, is recommended.

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Product					
Grade Name	DIAION <sup>™</sup> WA30				
Туре		Weak Base Anion			
Matrix	Styrene-DVB, Highly Porous				
Functional Group	, , ,				
Ionic Form		Free Base			
Specification					
Whole Bead Count	-	95 min.			
Total Exchange Capacity	meq/mL	1.5 min.			
Water Content	%	43 - 55			
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	630			
Mean Particle Size	μm	680			
Particle Density	g/mL	1.05			
Total Swelling (FB to Cl <sup>-</sup> )	%	21			
Recommended Operating Conditions					
Maximum Operating Temperature	°C	100			
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 Rince Requirement	BV	5 - 10			





## **DIAION**<sup>™</sup> WA30

## **Hydraulic Characteristics**

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION<sup>TM</sup> WA30 resin in normal down flow operation is shown in the graphs below.

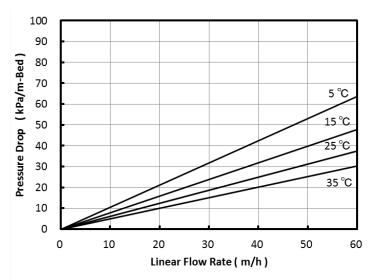


Fig. 1 Pressure Drop of WA30

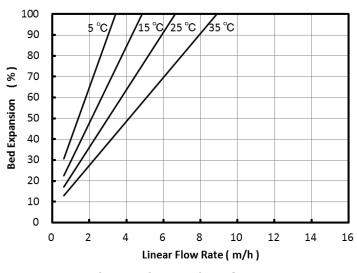


Fig. 2 Bed Expansion of WA30

## **Notice**

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