

## Product Data Sheet

**DIAION™ WA30LL**

DIAION™ WA30LL 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.

**Product**

Grade Name	DIAION™ WA30LL	
Type	Weak Base Anion	
Matrix	Styrene-DVB, Highly Porous	
Functional Group	Tertiary Amine	
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 $\mu$ m	%	5 max.
Particle Size Distribution thr. 425 $\mu$ m	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.

**Typical Properties**

Shipping Density	g/L	630
Mean Particle Size	$\mu$ m	710
Particle Density	g/mL	1.05
Total Swelling (FB to Cl <sup>-</sup> )	%	22

**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
Regenerant Flow Rate	BV/h	2 - 6
Total Rinse Requirement	BV	5 - 10

1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WA30LL resin in normal down flow operation is shown in the graphs below.

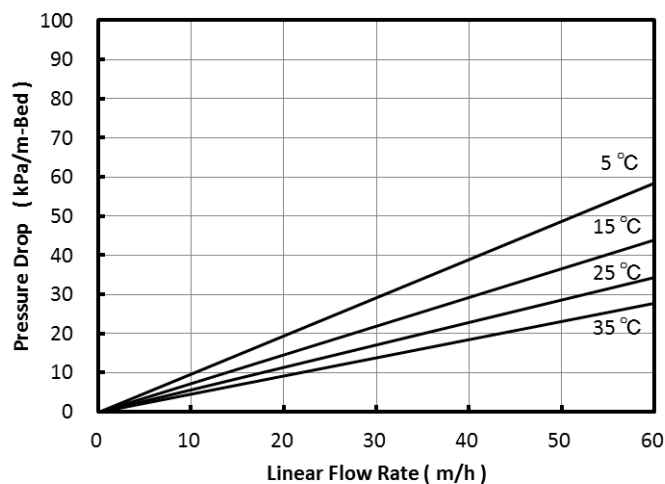


Fig. 1 Pressure Drop of WA30LL

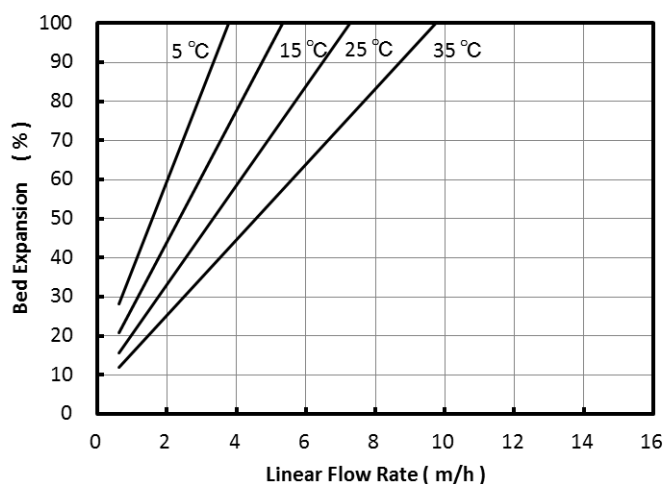


Fig. 2 Bed Expansion of WA30LL

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