

## Product Data Sheet

**DIAION™ WA20**

DIAION™ WA20 is a polyamine type weakly basic anion exchange resin. It has higher total anion exchange capacity with high regeneration efficiency. A wide range of applications, especially in a field of removal of strong mineral acids in water treatment, is recommended.

**Product**

Grade Name	DIAION™ WA20	
Type	Weak Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Polyamine	
Ionic Form	Free Base	

**Specification**

Whole Bead Count	-	95 min.
Total Exchange Capacity	meq/mL	2.5 min.
Water Content	%	39 - 45
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	660
Mean Particle Size	μm	570
Particle Density	g/mL	1.08
Total Swelling (FB to Cl <sup>-</sup> )	%	19

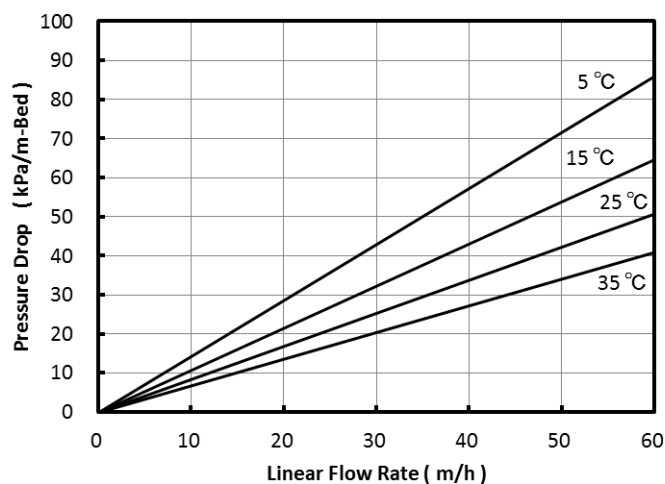
**Recommended Operating Conditions**

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

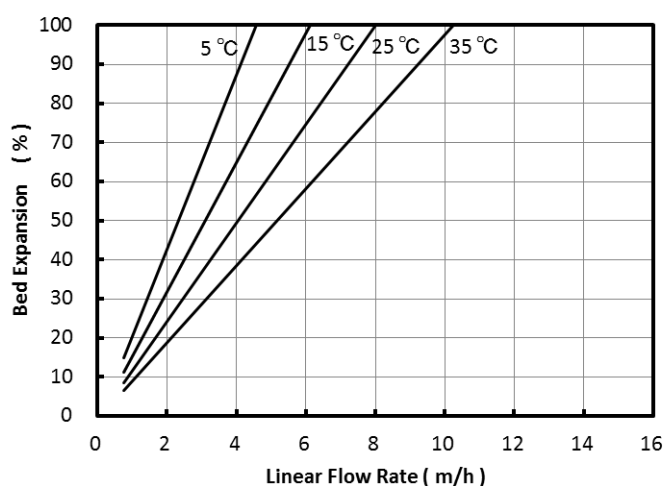
1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WA20 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of WA20**



**Fig. 2 Bed Expansion of WA20**

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