

## Product Data Sheet

**DIAION™ SA12AL**

DIAION™ SA12AL is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

**Product**

Grade Name	DIAION™ SA12AL	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	Cl <sup>-</sup>	

**Specification**

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	48 - 55
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	5 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.

**Typical Properties**

Shipping Density	g/L	670
Mean Particle Size	μm	660
Particle Density	g/mL	1.08
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	24

**Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 8
Total Rinse Requirement	BV	2 - 10


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## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SA12AL resin in normal down flow operation is shown in the graphs below.

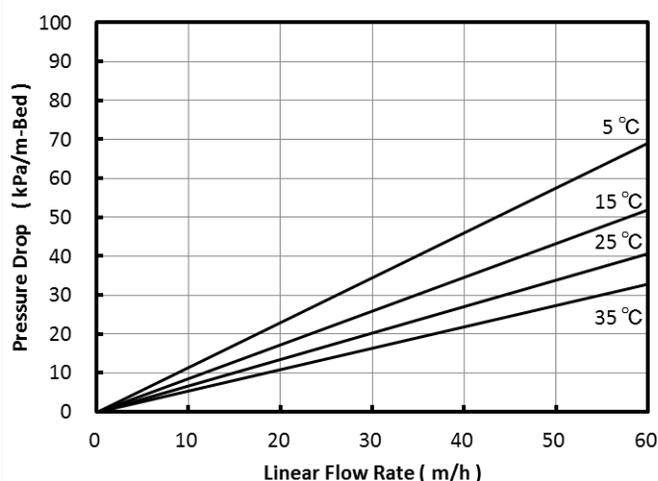


Fig. 1 Pressure Drop of SA12AL

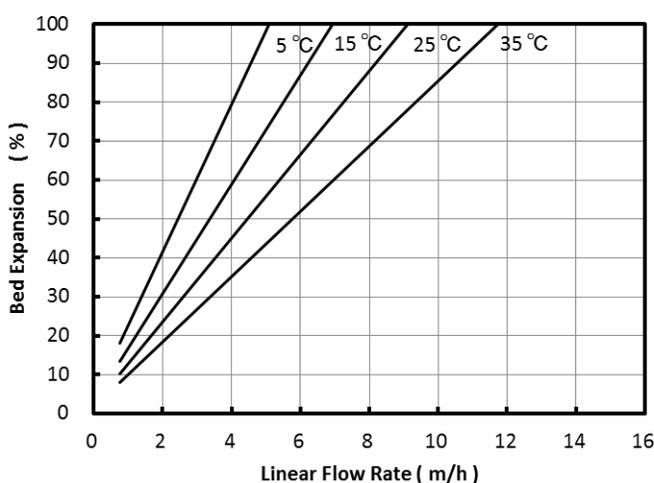


Fig. 2 Bed Expansion of SA12AL

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