

Product Data Sheet

DIAION™ SA12ALL

DIAION™ SA12ALL 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™ SA12ALL
Type	Strong Base Anion
Matrix	Styrene-DVB, Gel
Functional Group	Type I (trimethyl ammonium groups)
Ionic Form	Cl ⁻

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	%	1 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 ⁻ to OH ⁻)	%	24

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl ⁻) 60 (OH ⁻)
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™ SA12ALL resin in normal down flow operation is shown in the graphs below.

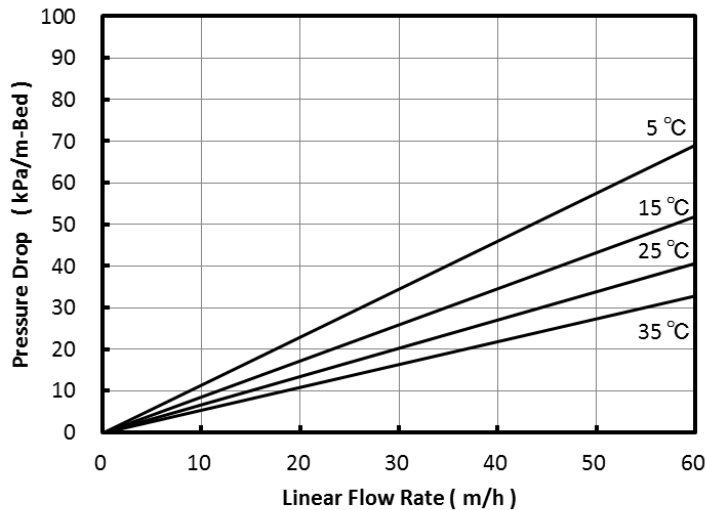


Fig. 1 Pressure Drop of SA12ALL

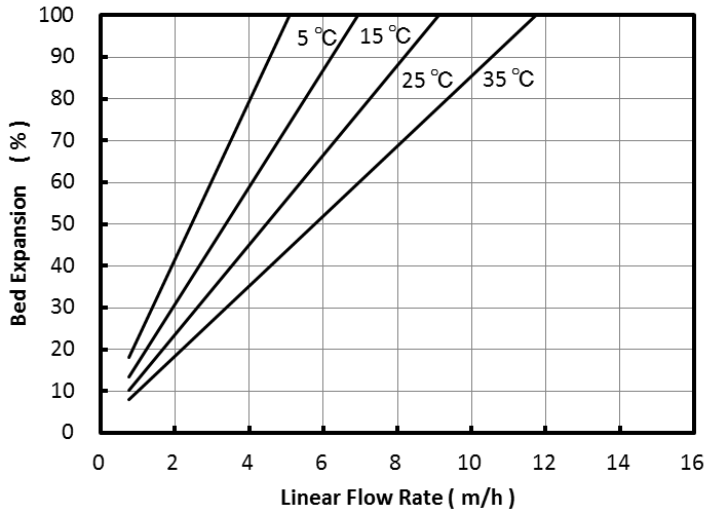


Fig. 2 Bed Expansion of SA12ALL

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.



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