

Product Data Sheet

DIAION™ SAF11AL

DIAION™ SAF11AL is a gel type strongly basic anion exchange resin. It has a lower cross-linkages and low-odor and low leachable properties. A wide range of applications, especially in a field of manufacturing drinking water and refining sugar liquors, is recommended.

Product

Grade Name	DIAION™ SAF11AL	
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	0.85 min.
Water Content	%	59 - 64
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.
Amine Effluent	ppb	20 max.

Typical Properties

Shipping Density	g/L	690
Mean Particle Size	μm	620
Particle Density (Cl ⁻)	g/mL	1.06
Total Swelling (Cl ⁻ to OH ⁻)	%	30

Recommended Operating Conditions

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

1 BV(Bed Volume)=1 m³/m³-resin

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SAF11AL resin in normal down flow operation is shown in the graphs below.

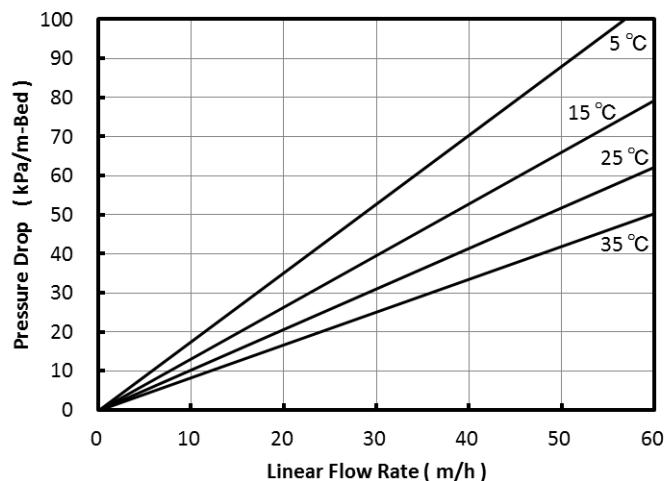


Fig. 1 Pressure Drop of SAF11AL

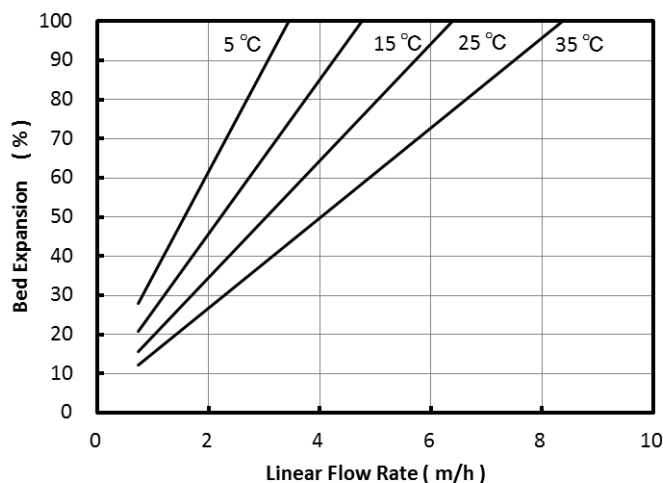


Fig. 2 Bed Expansion of SAF11AL

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