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.

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Grade Name	DIAION [™] SA12AL	
Туре		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	%	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 ⁻ to OH ⁻)	%	24
Recommended Operating Conditi	ons	
	00	80 (Cl ⁻)
Maximum Operating Temperature	°C	
Maximum Operating Temperature	Ľ	60 (OH ⁻)
Maximum Operating Temperature Operating pH Range	Ľ	
	mm	60 (OH ⁻)
Operating pH Range	-	60 (OH ⁻) 0 - 14 800
Operating pH Range Minimum Bed Depth	mm	60 (OH ⁻) 0 - 14 800
Operating pH Range Minimum Bed Depth Service Flow Rate	mm	60 (OH) 0 - 14 800 10 - 60 NaOH
Operating pH Range Minimum Bed Depth Service Flow Rate Regenerant	mm BV/h	60 (OH ⁻) 0 - 14 800 10 - 60 NaOH NaOH 2 - 8
Operating pH Range Minimum Bed Depth Service Flow Rate Regenerant Regenerant Concentration	mm BV/h %	60 (OH ⁻) 0 - 14 800 10 - 60

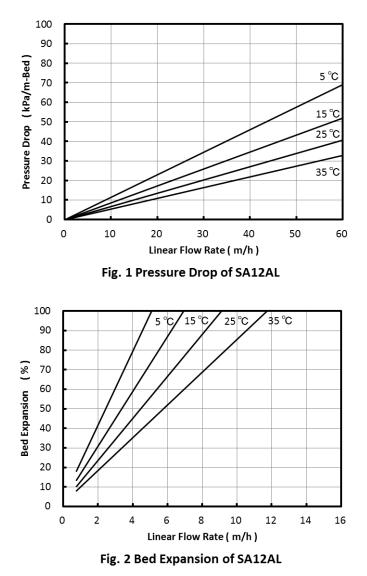
1 BV(Bed Volume)=1 m³/m³-resin

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Hydraulic Characteristics

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



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