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.

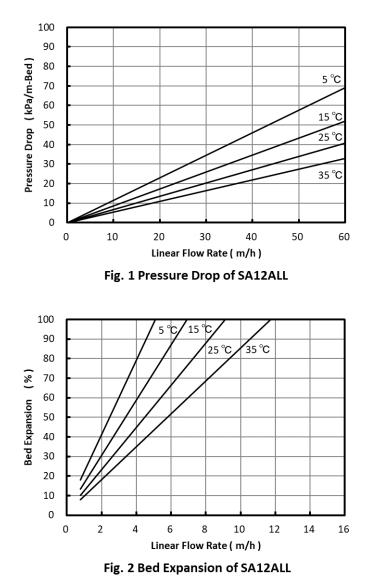
Product		
Grade Name	DIAION [™] SA12ALL	
Туре		Strong Base Anion
Matrix		Styrene-DVB, Gel
Functional Group	Ту	oe I (trimethyl ammonium groups)
Ionic Form		CI
Specification		
Whole Bead Count	_	90 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	48 - 55
Particle Size Distribution on 1180 μ m	%	5 max.
Particle Size Distribution thr. 425 μ m	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Shipping Density Mean Particle Size Particle Density	g/L μm g/mL	670 660 1.08
Total Swelling (Cl to OH)	%	24
Recommended Operating Conditi	ons	
Maximum Operating Temperature	°C	80 (Cl ⁻)
		60 (OH ⁻)
Operating pH Range		0 - 14
Operating pH Range Minimum Bed Depth	mm	0 - 14 800
	mm BV/h	
Minimum Bed Depth		800
Minimum Bed Depth Service Flow Rate		800 10 - 60
Minimum Bed Depth Service Flow Rate Regenerant	BV/h	800 10 - 60 NaOH
Minimum Bed Depth Service Flow Rate Regenerant Regenerant Concentration	BV/h %	800 10 - 60 NaOH NaOH 2 - 8

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 $DIAION^{TM}$ SA12ALL resin in normal down flow operation is shown in the graphs below.



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