

Product Data Sheet

DIAION™ SA20AP

DIAION™ SA20AP is a gel type strongly basic anion exchange resin. It is type II resin and has a standard cross-linkages and anti-clumping characteristics. A wide range of applications, especially in a field of manufacturing and processing pure water in regenerable mixed bed, is recommended.

Product

Grade Name	DIAION™ SA20AP	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type II (dimethylethanol ammonium groups)	
Ionic Form	Cl ⁻	

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	45 - 52
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	670
Mean Particle Size	μm	630
Particle Density	g/mL	1.11
Total Swelling (Cl ⁻ to OH ⁻)	%	14

Recommended Operating Conditions

Maximum Operating Temperature	°C	60 (Cl ⁻) 40 (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™ SA20AP resin in normal down flow operation is shown in the graphs below.

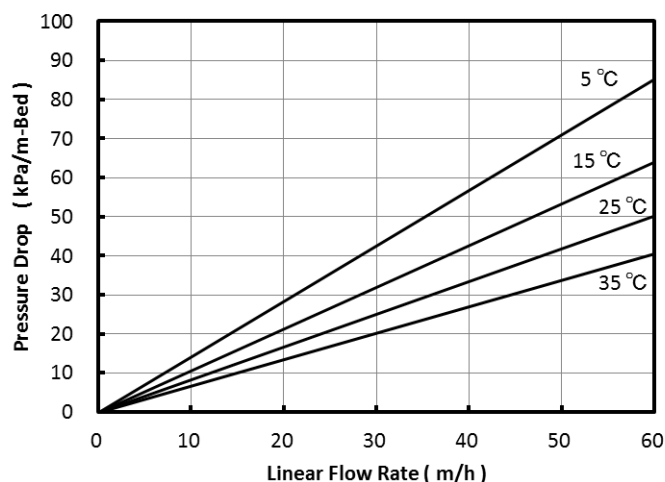


Fig. 1 Pressure Drop of SA20AP

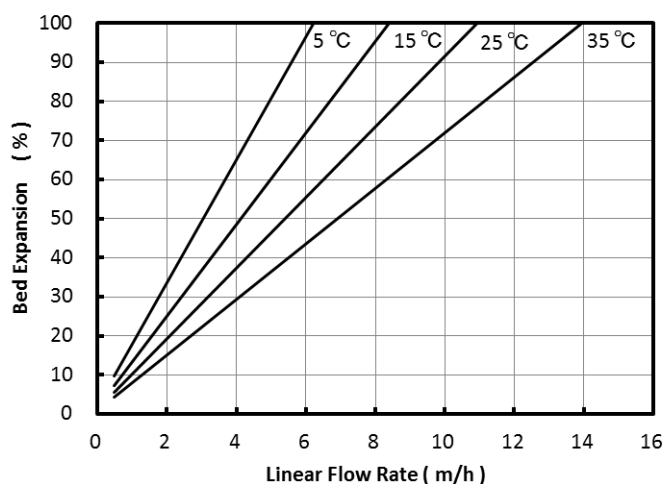


Fig. 2 Bed Expansion of SA20AP

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