

Product Data Sheet

DIAION™ SAT10DL

DIAION™ SAT10DL is a gel type strongly basic anion exchange resin. It has a higher cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

Product

Grade Name	DIAION™ SAT10DL	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH ⁻	

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	0.9 min.
Water Content	%	50 - 60
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 500 µm	%	5 max.
Effective Size	mm	0.50 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion (OH ⁻)	eq%	90 min.
Ionic Form Conversion (Cl ⁻)	eq%	1 max.
ΔTOC	ppb	50 max.

Typical Properties

Shipping Density	g/L	700
Mean Particle Size	µm	710
Particle Density	g/mL	1.08
Total Swelling (Cl ⁻ to OH ⁻)	%	22



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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



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SAT10DL resin in normal down flow operation is shown in the graphs below.

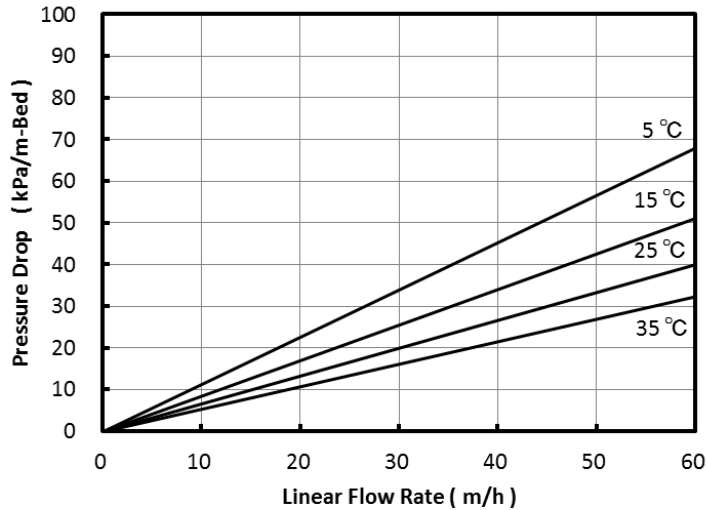


Fig. 1 Pressure Drop of SAT10DL

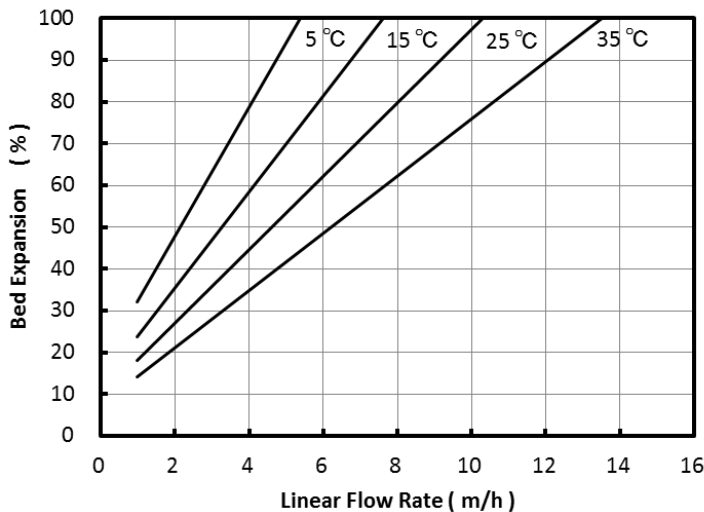


Fig. 2 Bed Expansion of SAT10DL

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