Product Data Sheet DIAION[™] SAT10L

DIAION[™] SAT10L is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

Grade Name	DIAION [™] SAT10L	
Туре	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form		ОН
Specification		
Color and Shape	- Light Yellow Translucent Beads	
Salt Splitting Capacity	meq/mL	0.9 min
Water Content	%	62 - 72
Particle Size Distribution on 1180 μm	%	5 max
Particle Size Distribution thr. 425 μm	%	1 max
Effective Size	mm	0.45 min
Uniformity Coefficient	-	1.6 max
Ionic Form Conversion (OH ⁻)	eq%	90 mir
Ionic Form Conversion (Cl ⁻)	eq%	1 max
ΔΤΟΟ	ppb	20 max
Outlet Resistivity	MΩ∙cm	15 mir
Typical Properties		
Shipping Density	g/L	660
Mean Particle Size	μm	720
Particle Density	g/mL	1.07
Total Swelling (Cl ⁻ to OH ⁻)	%	24
Recommended Operating Conditi	ions	
Maximum Operating Temperature	°C	80 (Cl
		60 (OH
Operating pH Range		0 - 1
		80
Minimum Bed Depth	mm	80
	mm BV/h	10 - 6
Minimum Bed Depth		
Minimum Bed Depth Service Flow Rate		10 - 6 NaO
Minimum Bed Depth Service Flow Rate Regenerant	BV/h	10 - 6 NaO NaOH 2 -
Minimum Bed Depth Service Flow Rate Regenerant Regenerant Concentration	BV/h %	10 - 6

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 $DIAION^{TM}$ SAT10L resin in normal down flow operation is shown in the graphs below.

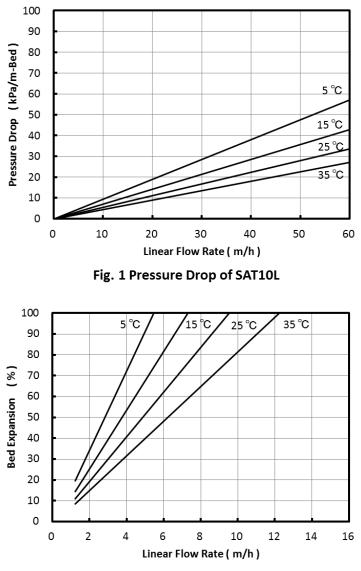
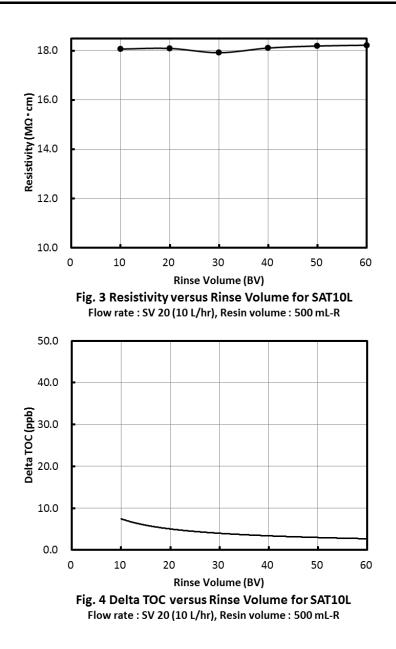


Fig. 2 Bed Expansion of SAT10L

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Rinse Performance



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