

## 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.

**Product**

Grade Name	DIAION™ SAT10L	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Gel	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH <sup>-</sup>	

**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 <sup>-</sup> )	eq%	90 min.
Ionic Form Conversion (Cl <sup>-</sup> )	eq%	1 max.
ΔTOC	ppb	20 max.
Outlet Resistivity	MΩ·cm	15 min.

**Typical Properties**

Shipping Density	g/L	660
Mean Particle Size	µm	720
Particle Density	g/mL	1.07
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	24

**Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
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


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## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SAT10L resin in normal down flow operation is shown in the graphs below.

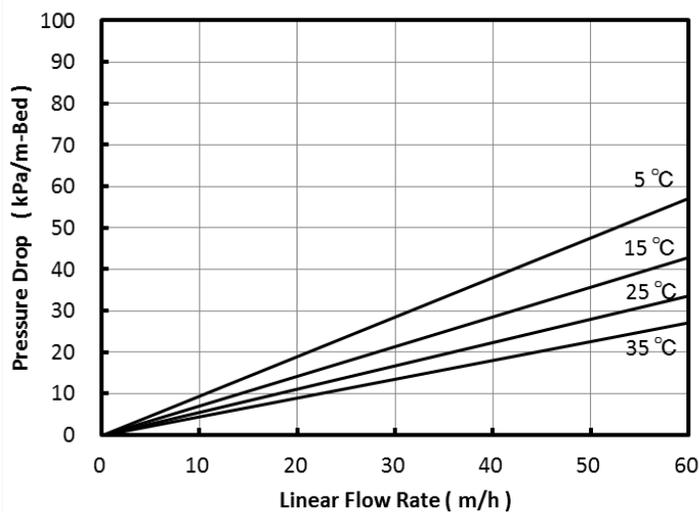


Fig. 1 Pressure Drop of SAT10L

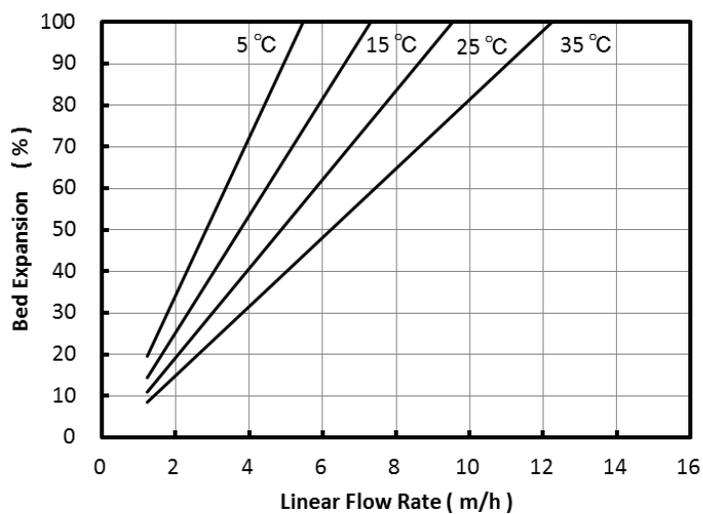
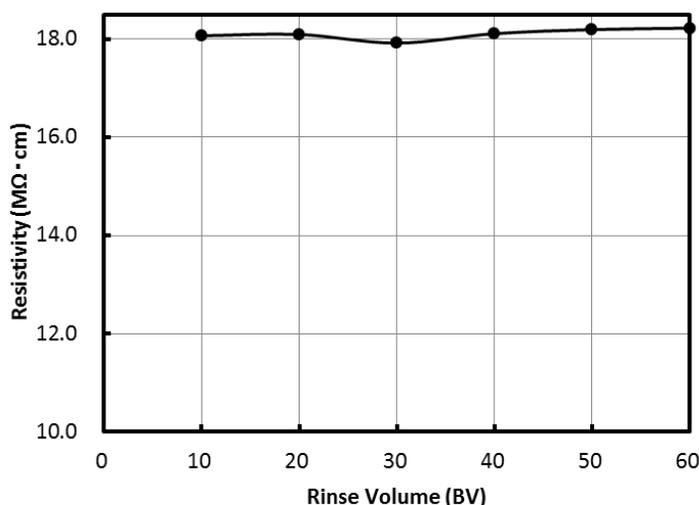


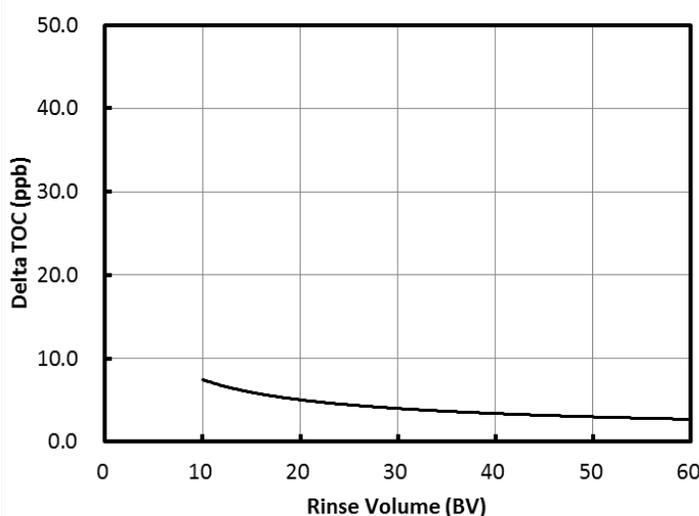
Fig. 2 Bed Expansion of SAT10L



## Rinse Performance



**Fig. 3 Resistivity versus Rinse Volume for SAT10L**  
Flow rate : SV 20 (10 L/hr), Resin volume : 500 mL-R



**Fig. 4 Delta TOC versus Rinse Volume for SAT10L**  
Flow rate : SV 20 (10 L/hr), Resin volume : 500 mL-R

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