Product Data Sheet DIAIONTM SAT20L

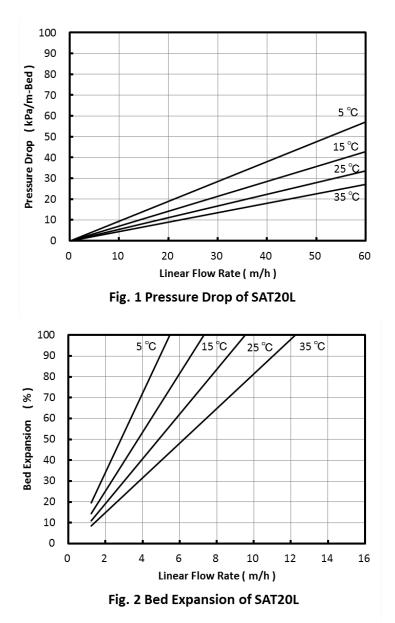
DIAION[™] SAT20L is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and shows lower TOC and metal leakage. It is recommended for semiconductor UPW application.

Grade Name	DIAION [™] SAT20L	
Туре		Strong Base Anior
Matrix		Styrene-DVB, Ge
Functional Group	Т	ype 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 μ m	%	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 min.
Ionic Form Conversion (Cl ⁻)	eq%	1 max.
Metal Content (Na)	ppb/dry-g	1000 max.
Metal Content (Ca)	ppb/dry-g	1000 max.
Metal Content (Fe)	ppb/dry-g	1000 max
Metal Content (Zn)	ppb/dry-g	1000 max
ΔTOC after 12 hours	ppb	1.0 max
Resistivity after 12 hours	MΩ∙cm	18.1 min.
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 Condit	ions	
Maximum Operating Temperature	°C	80 (CI
		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
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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ SAT20L resin in normal down flow operation is shown in the graphs below.

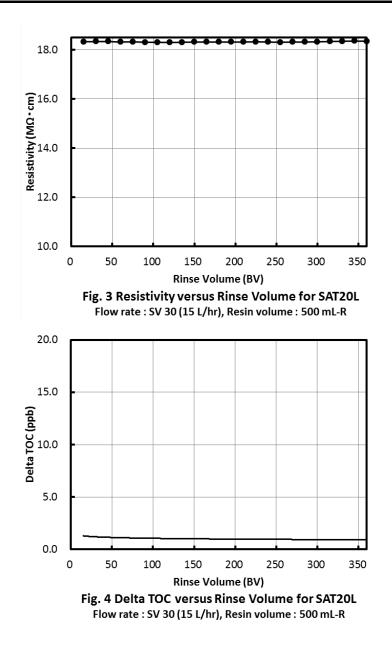






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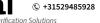
Rinse Performance



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