DIAION[™] SKT20L is a gel type strongly acidic cation exchange resin. It has standard cross-linkages and shows lower TOC and metal leakage. It is recommended for semiconductor UPW application.

Product		
Grade Name		DIAION [™] SKT20L
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Gel
Functional Group		Sulfonic acid
Ionic Form		H⁺
Specification		
Color and Shape	-	Brown Translucent Beads
Salt Splitting Capacity	meq/mL	1.7 min.
Water Content	%	50 - 60
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μ m	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion (H^{+})	eq%	99.9 min.
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.
ΔΤΟϹ	ppb	5.0 max.
Outlet Resistivity	MΩ∙cm	16 min.
Typical Properties		
Shipping Density	g/L	790
Mean Particle Size	μm	710
Particle Density	g/mL	1.20
Total Swelling (Na ⁺ to H^+)	%	9

Recommended Operating Conditions

120	°C	Maximum Operating Temperature	
0 - 14		Operating pH Range	
800	mm	Minimum Bed Depth	
10 - 40	BV/h	Service Flow Rate	
HCI		Regenerant	
H ₂ SO ₄			
HCl 4 - 10	%	Regenerant Concentration	
H ₂ SO ₄ 1 - 4			
30 - 150	g/L	Regenerant Level	
2 - 10	BV/h	Regenerant Flow Rate	
2 - 10	BV	Total Rinse Requirement	
$1 \text{ D}/(\text{Dod}/\text{olymp}) - 1 \text{ m}^3/\text{m}^3$			

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 $DIAION^{TM}$ SKT20L resin in normal down flow operation is shown in the graphs below.

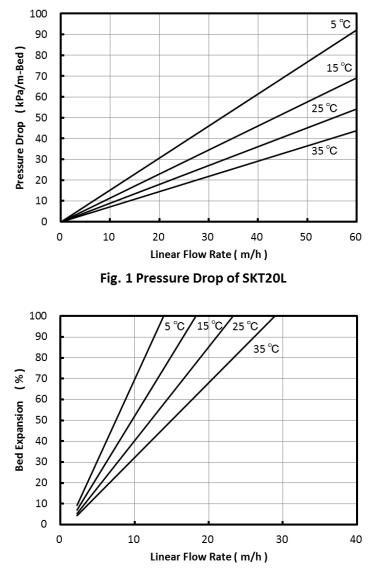
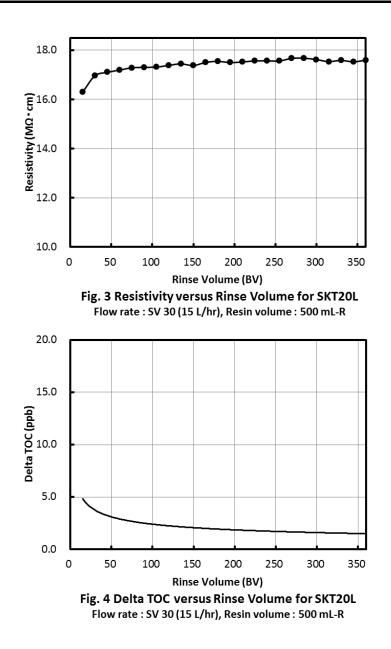


Fig. 2 Bed Expansion of SKT20L

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Rinse Performance



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