

## Product Data Sheet

**DIAION™ SKT10L**

DIAION™ SKT10L is a gel type strongly acidic cation exchange resin. It has standard cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

**Product**

Grade Name	DIAION™ SKT10L
Type	Strong Acid Cation
Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid
Ionic Form	H <sup>+</sup>

**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 µm	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion (H <sup>+</sup> )	eq%	99.9 min.
ΔTOC	ppb	20 max.
Outlet Resistivity	MΩ • cm	12 min.

**Typical Properties**

Shipping Density	g/L	790
Mean Particle Size	µm	710
Particle Density	g/mL	1.20
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	9



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**DIAION™ SKT10L****Recommended Operating Conditions**

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCl
		H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10
		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
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™ SKT10L resin in normal down flow operation is shown in the graphs below.

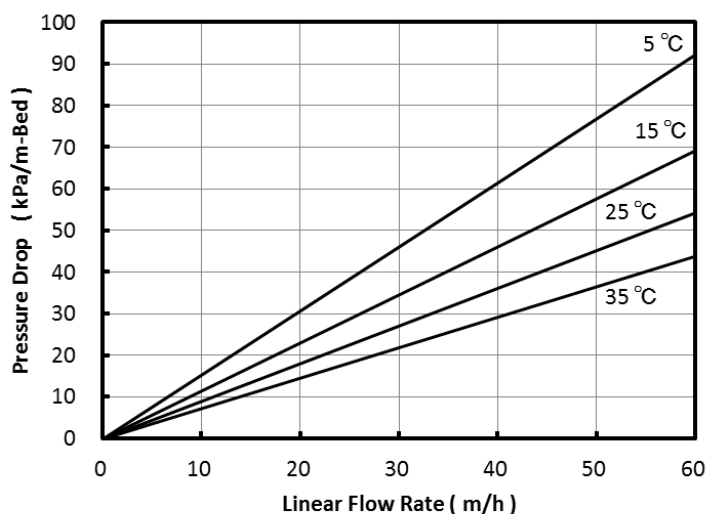


Fig. 1 Pressure Drop of SKT10L

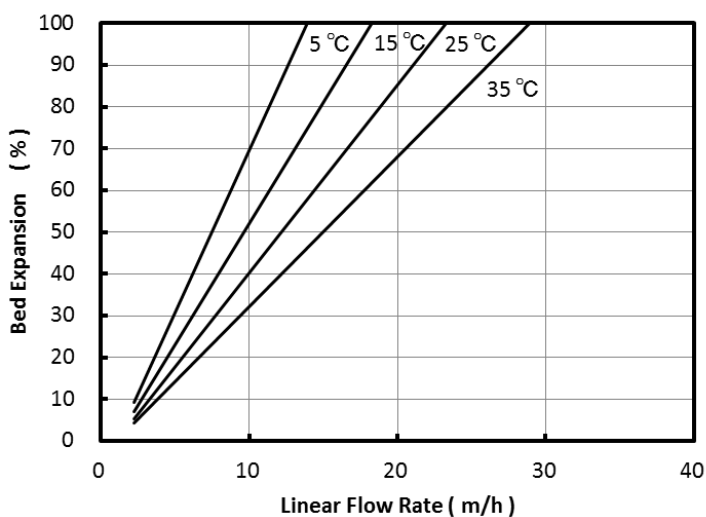
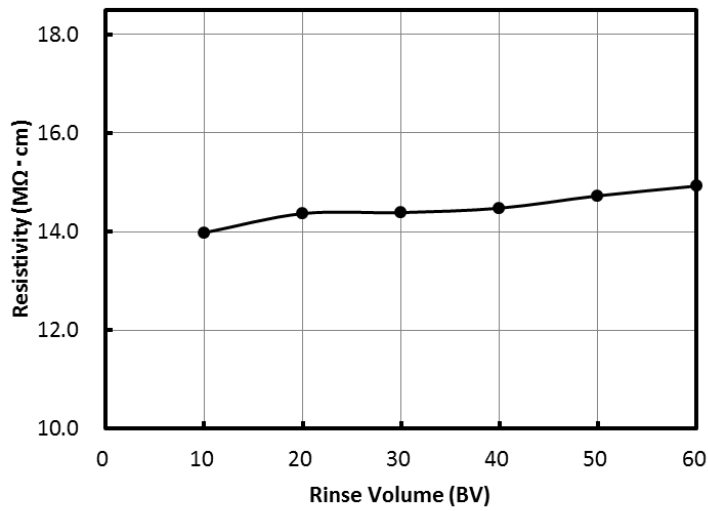
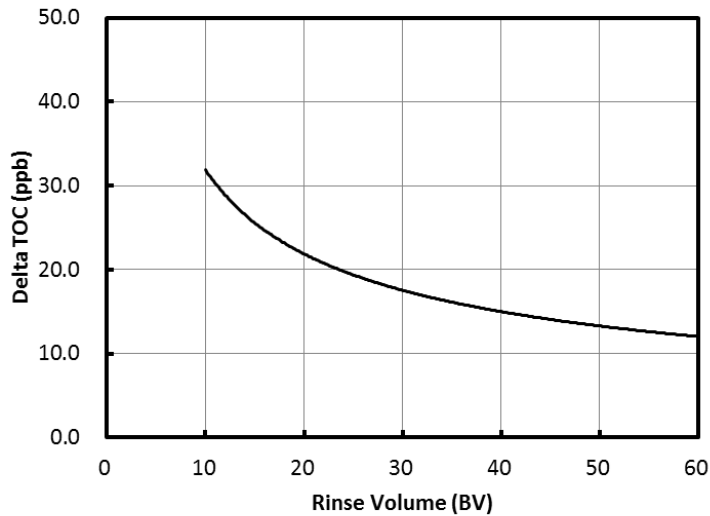


Fig. 2 Bed Expansion of SKT10L



**Rinse Performance****Fig. 3 Resistivity versus Rinse Volume for SKT10L**

Flow rate : SV 20 (10 L/hr), Resin volume : 500 mL-R

**Fig. 4 Delta TOC versus Rinse Volume for SKT10L**

Flow rate : SV 20 (10 L/hr), Resin volume : 500 mL-R

**Notice**

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.



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