

Product Data Sheet

DIAION™ SKT110L

DIAION™ SKT110L is a gel type strongly acidic cation exchange resin. It has a 10% cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

Product

Grade Name	DIAION™ SKT110L
Type	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	1.9 min.
Water Content	%	40 - 50
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 ⁺)	eq%	99.9 min.
ΔTOC	ppb	20 max.
Outlet Resistivity	MΩ·cm	12 min.

Typical Properties

Shipping Density	g/L	800
Mean Particle Size	μm	740
Particle Density	g/mL	1.23
Total Swelling (Na ⁺ to H ⁺)	%	8

Recommended Operating Conditions

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		HCl H ₂ SO ₄
Regenerant Concentration	%	HCl 4 - 10 H ₂ SO ₄ 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	BV/h	2 - 10
Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

Mitsubishi Chemical Corporation

please visit <http://www.diaion.com/en>

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SKT110L resin in normal down flow operation is shown in the graphs below.

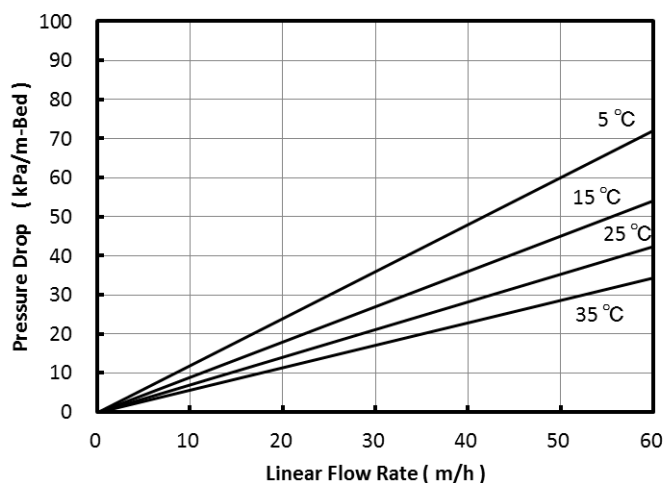


Fig. 1 Pressure Drop of SKT110L

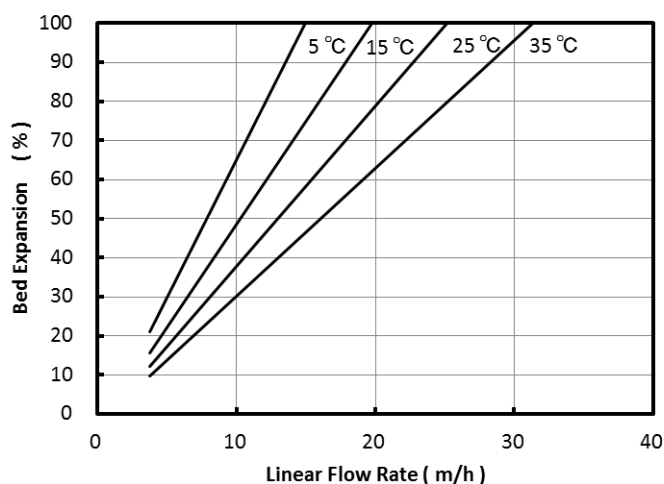


Fig. 2 Bed Expansion of SKT110L

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