

## Product Data Sheet

**DIAION™ SK112**

DIAION™ SK112 is a gel type strongly acidic cation exchange resin. It has 12% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

**Product**

Grade Name	DIAION™ SK112	
Type	Strong Acid Cation	
Matrix	Styrene-DVB, Gel	
Functional Group	Sulfonic acid	
Ionic Form	Na <sup>+</sup>	

**Specification**

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	2.1 min.
Water Content	%	32 - 42
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.

**Typical Properties**

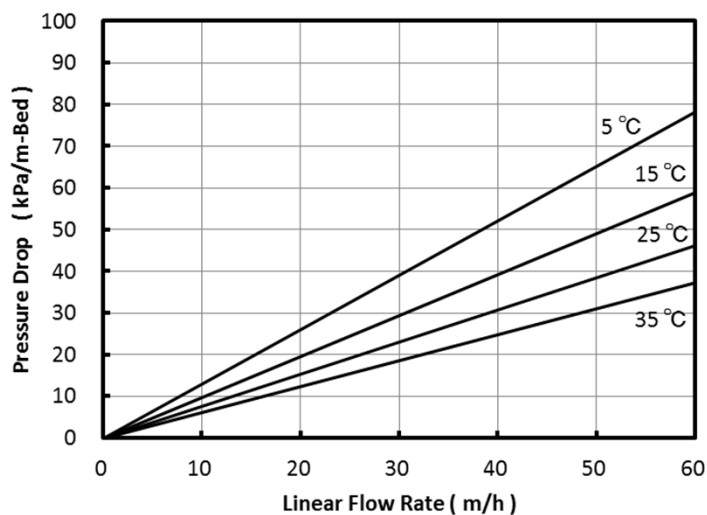
Shipping Density	g/L	860
Mean Particle Size	μm	690
Particle Density	g/mL	1.34
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	6

**Recommended Operating Conditions**

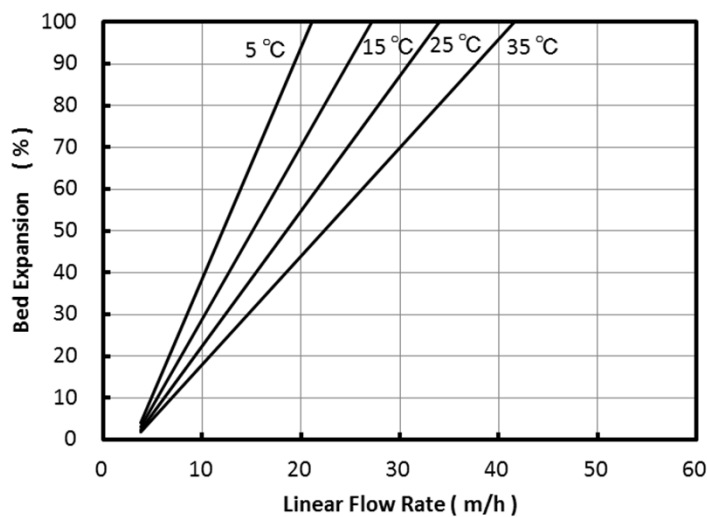
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCl H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10 H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10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

### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SK112 resin in normal down flow operation is shown in the graphs below.



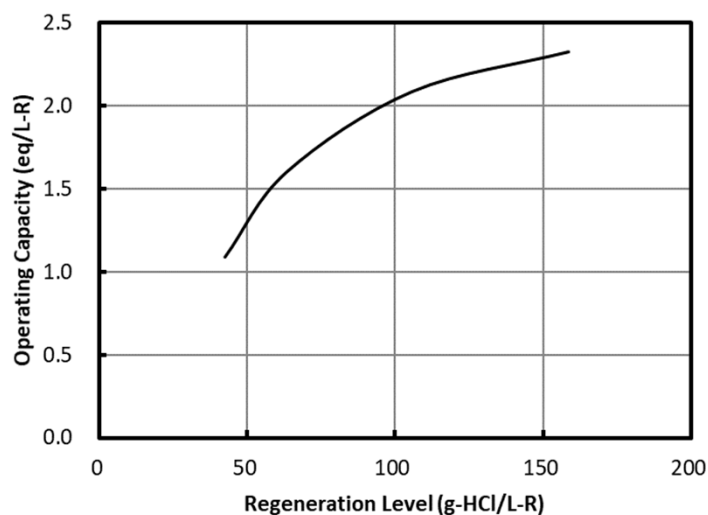
**Fig. 1 Pressure Drop of SK112**



**Fig. 2 Bed Expansion of SK112**

## Operational Capacity Data

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**Fig. 3 Operational Capacity Data of SK112**  
Regenerant : 4 % HCl

## Notice

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