

## Product Data Sheet

## DIAION™ SAN1

DIAION™ SAN1 is a nuclear grade gel type strongly basic anion exchange resin. It has standard crosslinkages and excellent properties. It can be used for cleanup system in primary circuit, cleanup system of SFP, radwaste, etc.

## Product

Grade Name	DIAION™ SAN1
Type	Strong Base Anion
Matrix	Styrene-DVB, Gel
Functional Group	Type I (trimethyl ammonium groups)
Ionic Form	OH <sup>-</sup>

## Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.0 min.
Water Content	%	57 - 67
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 425 µm	%	1 max.
Particle Size Distribution 425 - 1180 µm	%	95 min.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion OH Form	eq%	90 min.
Ionic Form Conversion CO <sub>3</sub> Form	eq%	10 max.
Ionic Form Conversion Cl Form	eq%	0.2 max.
Metal Content (Ca)	mg/L	50 max.
Metal Content (Pb)	mg/L	10 max.
Water Extractables	g/L-R	0.1 max.

## Typical Properties

Shipping Density	g/L	680
Mean Particle Size	µm	740
Particle Density	g/mL	1.07
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	23



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**DIAION™ SAN1****Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
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

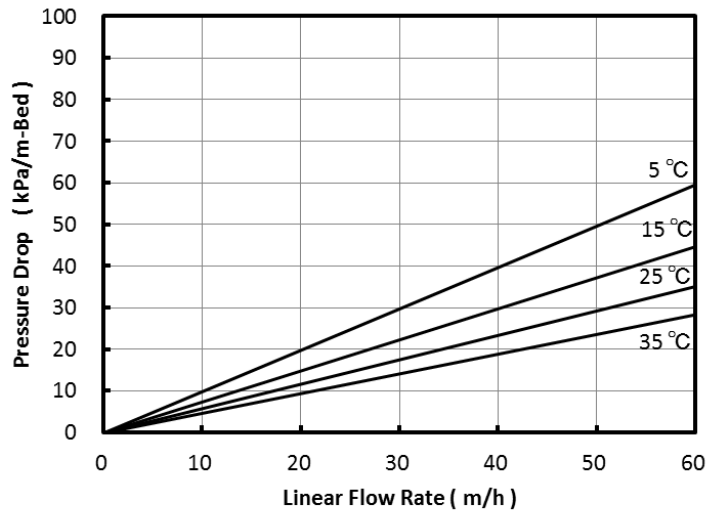


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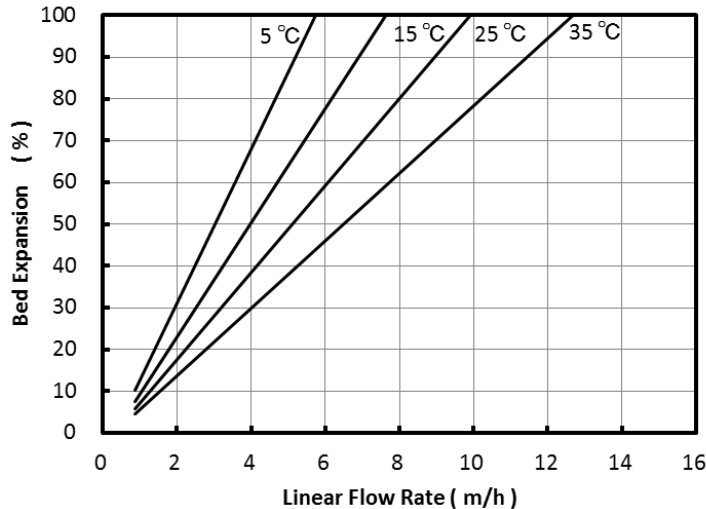
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### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SAN1 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of SAN1**



**Fig. 2 Bed Expansion of SAN1**

### Notice

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