Product Data Sheet

DIAION™ SANUPB

DIAION™ SANUPB is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and excellent properties. It is recommended for higher purity water treatment application.

Product

Grade Name	DIAION™ SANUPB
Type	Strong Base Anion
Matrix	Styrene-DVB, Gel
Functional Group	Type I (trimethyl ammonium groups)
Ionic Form	OH^-

Specification

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	0.9 min.
Water Content	%	55 - 65
Particle Size Distribution on 1180 µm	%	2 max.
Particle Size Distribution thr. 300 µm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion (OH^-)	eq%	90 min.
Ionic Form Conversion (CO_3^{2-})	eq%	10 max.
Ionic Form Conversion (Cl^-)	eq%	1 max.

Typical Properties

Shipping Density	g/L	660
Mean Particle Size	µm	720
Particle Density	g/mL	1.07
Total Swelling (Cl^- to OH^-)	%	23

Recommended Operating Conditions

Maximum Operating Temperature	°C	80 (Cl^-)
		60 (OH^-)
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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Hydraulic Characteristics

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

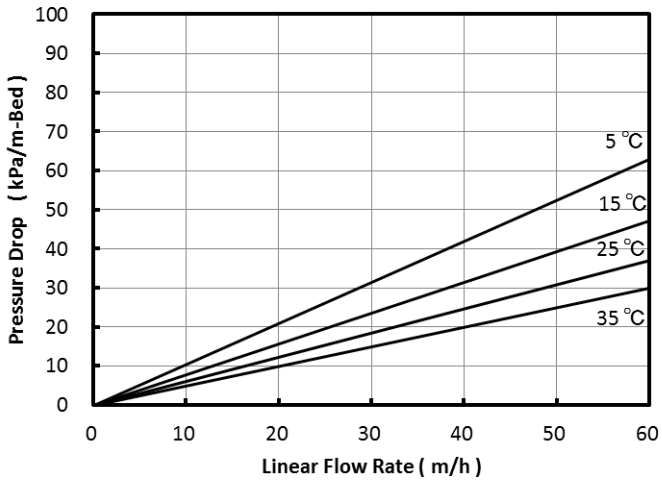

Fig. 1 Pressure Drop of SANUPB

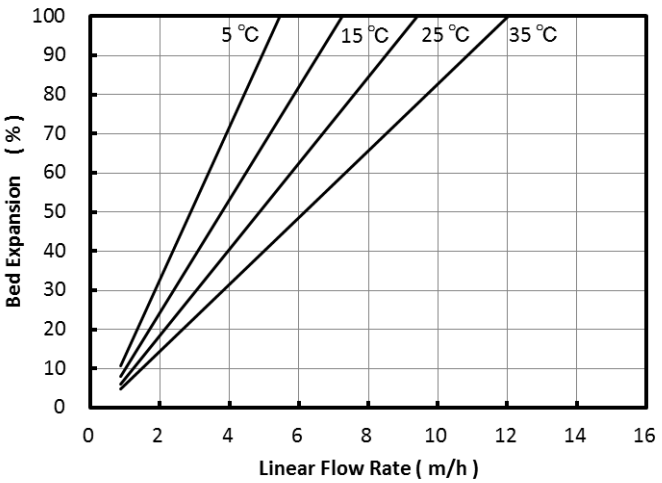

Fig. 2 Bed Expansion of SANUPB

Notice