

SEPLITE® Monojet™ SC3200 Na

Uniform particle size, Gel Strong acid cation resin for Industrial softening applications

·Descriptions

SEPLITE® Monojet™ SC3200 Na Ion Exchange Resin is a high cross-linkage product with excellent ion removal capability. Thanks to the uniform particle size and excellent chemical and physical properties, the resin have a long lifetime and offers a cost-effective simple operation. It is able to yield high operating capacity and help users to save the chemical regenerant and rinsing water.

SEPLITE® Monojet™ SC3200 Na is compatible with co-current or counter-current systems as well as mixed bed or single bed. The resin could be available in H⁺ form also.

·Physical and Chemical Characteristics

Matrix Structure	Gel, Styrene-divinylbenzene		
Functional group	Sulfonic acid		
Shipping form	Na ⁺ (H ⁺ is also available)		
Physical Appearance	Dark brown translucent spherical beads		
Particle size (mm)	0.65±0.05mm		
	<0.3mm	≤0.1%	
	≥0.85mm	≤3.0%	
Moisture content (%)	39-45 (Na ⁺ Form)		
Total Capacity(eq/L)	≥2.2 (Na ⁺ Form)		
Bulk Density (g/l)	780-880		
Density (g/l)	1250-1350		
Whole beads count (%)	≥95		
Uniformity coefficient	≤1.1		

·Applications

- Industrial softening
- Industrial Demineralization

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Recommended Operating Conditions

Operating Temperature	Max.	130°C	
PH Range		0-14	
Min. Bed depth	mm	800	
Operation linear velocity	max. m/h	5-60	
Backwash linear velocity	Approx. m/h	10-25 (at 20° C)	
Bed expansion	Approx. vol. %	4-5 (at 20° C, per m/h)	
Backwash Freeboard	vol. %	60-100	
Regenerant		HCl	H2SO4
Counter current regeneration level	Approx. g/l	50	80
Counter current regeneration concentration	Approx. wt. %	4-6	1-3
Regeneration linear velocity	Approx. m/h	5	5
Rinse linear velocity	Approx. m/h	5	5
Rinse water requirement(slow/fast)	BV	2-5	2-5
Co current regeneration level	Approx. g/l	100	150
Co current regeneration concentration	Approx. wt. %	6-10	1-3
Regeneration linear velocity	Approx. m/h	5	5
Rinse linear velocity	Approx. m/h	5	5
Rinse water requirement(slow/fast)	BV	4-8	4-8

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Hydraulic Characteristics

Typical values of pressure drop across a bed of SEPLITE® Monojet™ SC3200 are given for a range of operating flow rate in Fig. 1.

Fig. 2 shows the Bed expansion which is a function of flow rate and temperature. Be cautious to avoid loss by accidental over-expansion of the bed.

Fig. 1 Pressure Drop

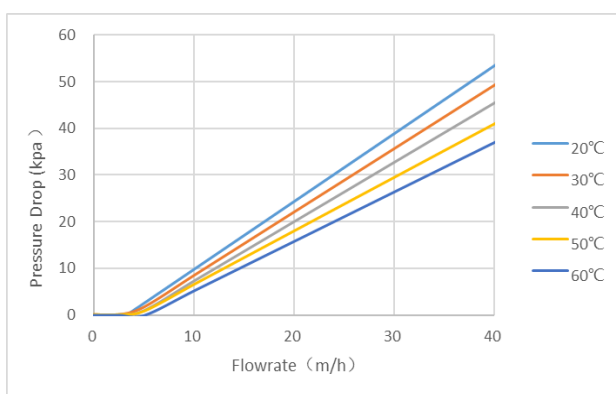
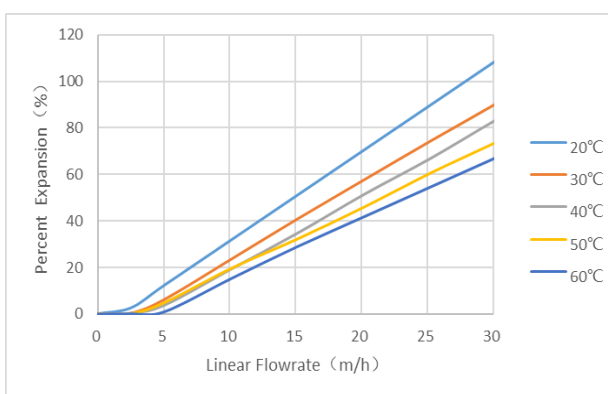


Fig. 2 Backwash Expansion



Precautions

Resins should be stored in sealed containers or bags where temperature was above 0°C in dry conditions without exposure to direct sunlight.

Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.

In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.

Material and samples must be disposed according to local regulations.

Dry polymers will expand when become wetted and may cause an exothermic reaction.

Spilled materials may be slippery.

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