

SEPLITE® Monojet™ SA6700 Cl

Uniform particle size, Gel Type 1, Strong base anion resin for Industrial demineralization applications

·Descriptions

SEPLITE® Monojet™ SA6700 Cl Ion Exchange Resin is a high-quality resin with uniform particle size designed specifically for use in industrial demineralization applications as well as condensate polishing with high performance required.

With its stable chemical and physical properties, the resin is able to yield excellent operation capacity but with low pressure drop, which can also help the users to save the usage of regenerant and rinse water.

SEPLITE® Monojet™ SA6700 is also available in OH form depending on user's requirement.

·Physical and Chemical Characteristics

Matrix Structure	Gel, Styrene-divinylbenzene		
Functional group	Quaternary Amine		
Shipping form	Cl (OH is also available)		
Physical Appearance	Light yellow to yellowish translucent spherical beads		
Particle size (mm)	0.55±0.05mm		
	<0.3mm	≤0.3%	
	≥0.85mm	≤1.0%	
Moisture content (%)	42-49 (Cl Form)		
Total Capacity(eq/L)	≥1.4 (Cl Form)		
Bulk Density (g/l)	680-750		
Density (g/l)	1080-1130		
Whole beads count (%)	≥95		
Uniformity coefficient	≤1.1		
Volume change (Cl- to OH-) Max. vol. %	20		

·Applications

- Industrial demineralization
- Mixed bed polishing
- Condensate polishing

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Recommended Operating Conditions

Operating Temperature	Max.	70°C
PH Range		0-14
Min. Bed depth	mm	800
Pressure drop	max. kPa	210
Operation linear velocity	max. m/h	5-120
Backwash linear velocity	Approx. m/h	5 (at 20° C)
Bed expansion	Approx. vol. %	18 (at 20° C, per m/h)
Backwash Freeboard	vol. %	80-100
Regenerant		NaOH
Counter current regeneration level	Approx. g/l	50
Counter current regeneration concentration	Approx. wt. %	2-4
Regeneration linear velocity	Approx. m/h	5
Rinse linear velocity	Approx. m/h	5
Rinse water requirement(slow/fast)	BV	2-3
Co current regeneration level	Approx. g/l	100
Co current regeneration concentration	Approx. wt. %	3-5
Regeneration linear velocity	Approx. m/h	5
Rinse linear velocity	Approx. m/h	5
Rinse water requirement(slow/fast)	BV	8

Hydraulic Characteristics

Typical values of pressure drop across a bed of SEPLITE® Monojet™ SA6700 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

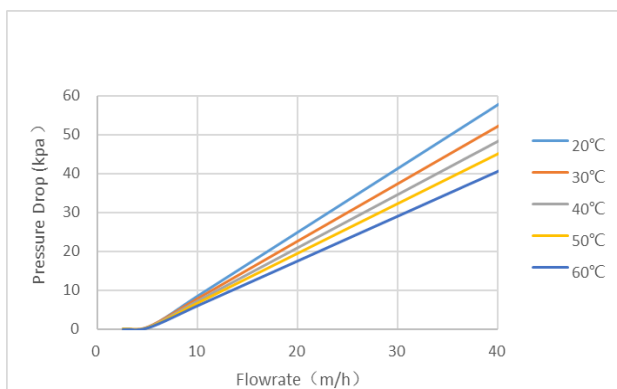
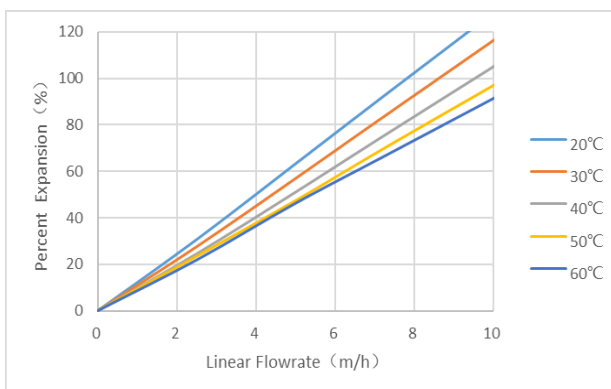


Fig. 2 Backwash Expansion



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•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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