

PRODUCT INFORMATION

SEPLITE® SA400

SEPLITE® Gel Strong Base Anion



•Descriptions

SEPLITE® SA400 is a type 1 strong base gel anion ion exchange resins, crosslinking 4%.

The structure was specially developed to make a balance between total capacity and regeneration efficiency. It also has excellent resistance to osmotic shock and good physical and chemical stability.

SEPLITE® SA400 is used for industrial water treatment, radioactive element extraction, condensate deionization.

SEPLITE® SA400 can be used in single bed or mixed bed.

•Physical and Chemical Characteristics

Matrix Structure	Polystyrene Crosslinked with DVB	
Functional Group	Quaternary amine (Trimethylamine)	
Shipping form	OH- form or Cl- form	
Physical Appearance	Yellowish translucent spheres	
Particle size (mm)	0.3-1.19 >95%	
<0.3 mm	≤ 1.0	
>1.19mm	≤ 2.0	
Mean diameter (mm)	0.55~0.75 (OH – form)	0.525~0.725(Cl- form)
Moisture content (%)	55-70(OH- form)	45-60 (Cl- form)
Total Capacity(eq/L)	≥1.0 (OH- form)	≥1.2(Cl- form)
Bulk Density (g/l)	630-730	
Density (g/l)	1070-1100	
Whole beads count (%)	≥95	
Uniform coefficient	≤ 1.60	

•Key features and benefits

- High operating capacity
- Good kinetic performance
- Long lifetime



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Recommended Operating Conditions

Maximum Operating Temperature	OH- form 60°C Cl- form 100°C	
Service Flow Rate (BV/h)	5-50	
Regeneration	≤50°C	
Regenerants	NaOH	NaCl+NaOH
Concentration (%)	2-5	10%+2%
Flow Rate (BV/h)	1-3	1-2
Minimum Contact Time	30 Minutes	
Fast Rinse (BV/h)	3-5 BV	
PH Range	0-14	
1 BV (Bed Volume) = 1 m3 solution per m3 resin		

Applications

- Industrial demineralization
- Radioactive element extraction
- Condensate deionization
- Removal of contaminants such as nitrate, arsenate, chromate, uranium etc.

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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• This information is general information and may differ from that based on actual conditions. For more information about SEPLITE® resins, please contact SUNRESIN® directly.