

## PRODUCT INFORMATION

# SEPLITE® SC120

SEPLITE® Gel Strong Acid Cationic exchange resin



## •Descriptions

SEPLITE® SC 120 is a high purity strong acid cationic exchange resin, gel type, with crosslinking 7% DVB.

It is mainly designed for the industrial water softening and demineralization applied in power plant etc., also can be used in house-hold water conditioning equipment.

The high excellent mechanical strength and good ion exchange kinetics makes it a good general-purpose resin in different applications, compared with other resins in market, this resin is distinguished for its long service life.

It is available in other particle size distribution ranges, and available in Na<sup>+</sup> or H<sup>+</sup> form.

## •Physical and Chemical Characteristics

|                       |                                  |
|-----------------------|----------------------------------|
| Matrix Structure      | Polystyrene Crosslinked with DVB |
| Shipped form          | Sodium or Hydrogen               |
| Physical Appearance   | Yellowish Spherical beads        |
| Particle size (mm)*   | 0.315-1.25                       |
| Moisture content (%)* | 45-50 (Sodium Form)              |
| Total Capacity(eq/L)* | ≥1.9                             |
| Bulk Density ( g/l)*  | 770-870                          |
| Density ( g/l)        | 1240-1280                        |
| Whole beads count (%) | ≥95                              |

\*All parameters with star are subject to our quality control

## •Key features and benefits

- High operating capacity
- Good kinetic performance
- Long lifetime

## •Recommended Operating Conditions

|                                                                        |                                                   |
|------------------------------------------------------------------------|---------------------------------------------------|
| Maximum Operating Temperature                                          | 120℃                                              |
| Service Flow Rate (BV/h)                                               | 5-50                                              |
| Regeneration                                                           |                                                   |
| Regenerants                                                            | NaCl      HCl      H <sub>2</sub> SO <sub>4</sub> |
| Concentration (%)                                                      | 10      5-8      0.7-6                            |
| Flow Rate (BV/h)                                                       | 2-8      2-5      2-20                            |
| Minimum Contact Time                                                   | 30 Minutes                                        |
| Fast Rinse ( BV/h)                                                     | 3-5 BV                                            |
| PH Range                                                               | 0-14                                              |
| 1 BV (Bed Volume) = 1 m <sup>3</sup> solution per m <sup>3</sup> resin |                                                   |



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### •Applications

- Industrial water softening
- Industrial water demineralization
- Other applications please seek help from Sunresin

### •Precautions

Resins should be stored in sealed containers or bags where temperature was above 0℃ 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.