

# TRILITE® SCR-B

Gaussian Strong Acid Cation Exchange Resin

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TRILITE® SCR-B is a standard cross-linked, Gaussian, SAC gel-type exchange resin with excellent ion removal capacity, which allows for the economical production of high-purity water. With outstanding physical and chemical strength, there is a minimal resin crush rate over long-term usage. It is supplied in its Na<sup>+</sup> form and can also be supplied in its H<sup>+</sup> form.

## Physical and Chemical Properties

|                       |                      |                                                    |               |
|-----------------------|----------------------|----------------------------------------------------|---------------|
| Matrix                | Polystyrene+DVB, Gel | Functional Group                                   | Sulfonic acid |
| Ionic Form            | Na <sup>+</sup>      | Total Capacity(eq/ℓ)                               | 2.00 ↑        |
| Shipping Density(g/ℓ) | 830                  | Moisture Retention(%)                              | 43~50         |
| Particle Density      | 1.29                 | Uniformity Coefficient                             | 1.6 ↓         |
| Particle Size(μm)     | 300~1,200            | Swelling Rate(Na <sup>+</sup> →H <sup>+</sup> , %) | 8~9           |
| Whole Beads(%)        | 95 ↑                 |                                                    |               |

## Recommended Operating Conditions

|                    |       |                        |      |
|--------------------|-------|------------------------|------|
| Operating Temp(°C) | 120 ↓ | pH Range               | 0~14 |
| Bed Depth(mm)      | 800   | Service Flow Rate(m/h) | 5~50 |

## Regeneration

|                       |                                            |                  |                                                                |
|-----------------------|--------------------------------------------|------------------|----------------------------------------------------------------|
| Regenerant            | HCl, H <sub>2</sub> SO <sub>4</sub> , NaCl | Concentration(%) | HCl(4~10), H <sub>2</sub> SO <sub>4</sub> (1~4),<br>NaCl(8~12) |
| Level(g/ℓ)            | 50~200                                     | Flow Rate(m/h)   | 4~20                                                           |
| Rinse Requirement(BV) | 4~10                                       |                  |                                                                |

## Applications

TRILITE® SCR-B is widely used not only for water treatment like softening and demineralization but also for various special applications like starch, sugar, pharmaceuticals, and catalysis reaction.

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