

TRILITE® SCR-BH

Gaussian Strong Acid Cation Exchange Resin

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TRILITE® SCR-BH 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 H⁺ form and can also be supplied in its Na⁺ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	H ⁺	Total Capacity(eq/ℓ)	1.80 ↑
Shipping Density(g/ℓ)	800	Moisture Retention(%)	45~55
Particle Density	1.25	Uniformity Coefficient	1.6 ↓
Particle Size(μm)	300~1,200	Swelling Rate(Na ⁺ →H ⁺ , %)	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 ₂ SO ₄	Concentration(%)	HCl(4~10), H ₂ SO ₄ (1~4)
Level(g/ℓ)	50~200	Flow Rate(m/h)	4~20
Rinse Requirement(BV)	4~10		

Applications

TRILITE® SCR-BH 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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