

TRILITE® KC-07

Gaussian Strong Acid Cation Exchange Resin

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TRILITE® is a Gaussian, SAC gel-type exchange resin with excellent ion removal capacity. It is suitable for water softener and can economically produce purified water. TRILITE® KC-07 is a standard cross-linked product with outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. TRILITE® KC-07 is supplied in its Na⁺ form and can also be supplied in its H⁺ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	1.90 ↑
Shipping Density(g/ℓ)	800	Moisture Retention(%)	45~50
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® KC-07 is widely used in industrial water softening and can achieve excellent economic efficiency.

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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

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Ion Exchange Resin

<http://samyangtrilite.com>