

TRILITE® KC-07

Gaussian Strong Acid Cation Exchange Resin

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TRILITE® is KH-70 Strong Acid Cation Exchange Resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® KH-70 is a premium grade resin not only for industrial but also domestic softening. It features decreased initial coloring matters and impurity release of cation resins by post-treatment and reduced bad odor through process control. TRILITE® KH-70 has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® KH-70 is supplied in Na⁺ 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	NaCl	Concentration(%)	6~10
Level(g/ℓ)	50~200	Flow Rate(m/h)	4~20
Rinse Requirement(BV)	4~10		

Applications

TRILITE® KH-70 is a product certified by NSF for use in drinking water.

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

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<http://samyangtrilite.com>