

TRILITE® UKC-12

Uniform Particle Size Acid Cation Exchange Resin

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TRILITE® UKC-12 is a UPS, SAC gel-type exchange resin with excellent ion removal capacity, which allows production of high-purity water. TRILITE® UKC-12 is ultra highly cross-linked product with outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. It is supplied in its Na⁺ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	2.40 ↑
Shipping Density(g/ℓ)	860	Moisture Retention(%)	30~44
Particle Density	1.4	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	600±50	Swelling Rate(Na ⁺ →H ⁺ , %)	7
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)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE® UKC-12 is widely used for the primary circuit in nuclear power plant and other special purification requiring high exchange capacity.

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

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