

Product Data Sheet

TRILITE® KH-80

Strong Acid Cation Exchange Resin for Industrial/Domestic Softening

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TRILITE® KH-80 is Strong Acid Cation Exchange Resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE KH-80 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-80 has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE KH-80 is supplied in Na⁺ form.

Physical and Chemical Properties

Physical Form	Light brown translucent spherical beads	Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid	Ionic Form	Na ⁺
Total Capacity(eq/ℓ)	2.00 ↑	Moisture Retention(%)	43~50
Shipping Density(g/ℓ)	830	Particle Density	1.29
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.3~1.2
Whole Beads(%)	90 ↑	Swelling(Na ⁺ →H ⁺ , %)	8
Color Throw	20 APHA max.		

Recommended Operating Conditions

Operating Temp(°C)	120	pH Range	0~14
Bed Depth(mm)	1000	Service Flow Rate(m/h)	5~50
Regeneration			
Regenerant	NaCl	Concentration(%)	10%
Level(g/ℓ)	80~250(NaCl)	Flow Rate(m/h)	4~20
Rinse Requirement(BV)	10~30		

Applications

TRILITE® KH-80 is widely used for industrial softening and demineralization, and domestic applications, etc.

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

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