Technical Data Sheet

TRILITE® KH80

Gaussian Strong Acid Cation Exchange Resin

Rev 3. Feb 2023

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			
Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na^+	Total Capacity(eq/ℓ)	2.00 ↑
Shipping Density(g/ℓ)	800	Moisture Retention(%)	43~50
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(℃)	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-80 is a product certified by NSF for use in drinking water.

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

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TRILITE 삼양 트리라이트 Ion Exchange Resin

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