

TRILITE® MC-08

Uniform Particle Size Strong Acid Cation Exchange Resin

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TRILITE® MC-08 Strong Acid Cation Exchange Resin is a Gel Type Uniform Particle Size resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® MC-08 is a standard cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MC-08 can be supplied by Na⁺ form but H⁺ form can be available depending on application and user's request.

Physical and Chemical Properties

Physical Form	Khaki translucent spherical beads	Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid	Ionic Form	Na ⁺
Total Capacity(eq/ℓ)	2.00 ↑	Moisture Retention(%)	43~49
Shipping Density(g/ℓ)	845	Particle Density	1.28
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	600±50
Whole Beads(%)	95 ↑	Swelling(Na ⁺ →H ⁺ , %)	9

Recommended Operating Conditions

Operating Temp(°C)	120	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60
Regeneration			
Regenerant	HCl, H ₂ SO ₄	Concentration(%)	HCl(1~8), H ₂ SO ₄ (1~4)
Level(g/ℓ)	30~150	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE® MC-08 is widely used for softening, demineralization, and other special processes like lysine, sugar and catalyst reaction.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MC-08 as a function of flow rate and temperature.

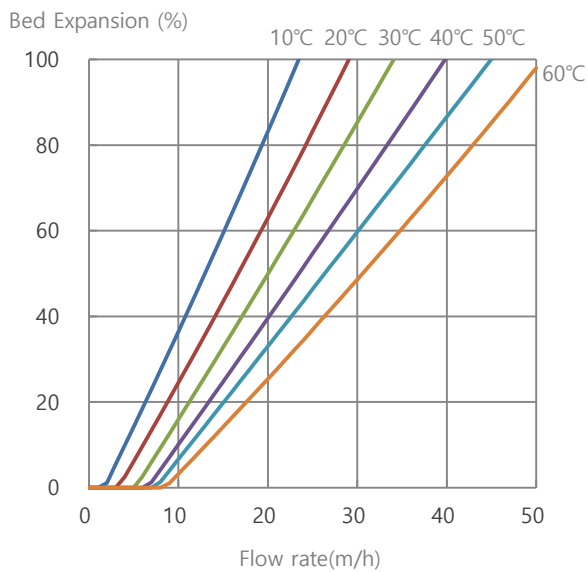


Figure 1. TRILITE® MC-08 Na⁺ Type

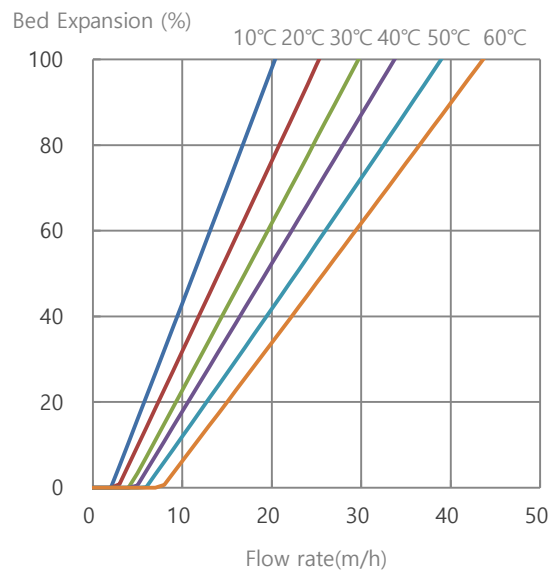


Figure 2. TRILITE® MC-08 H⁺ Type

Figure 3 and 4 show the pressure drop of TRILITE® MC-08 as a function of flow rate and water temperature.

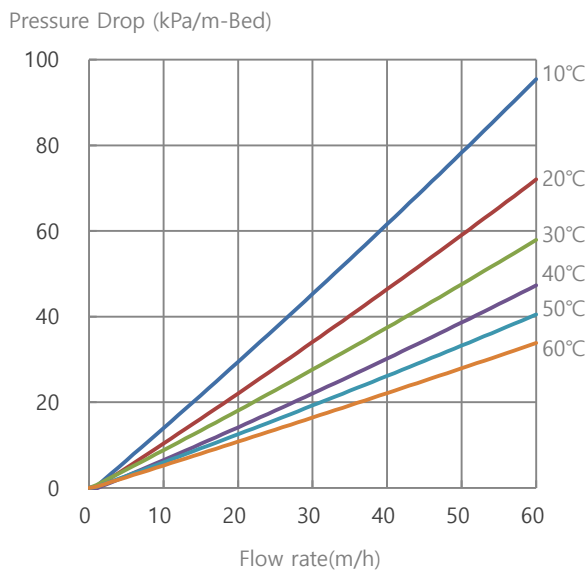


Figure 3. TRILITE® MC-08 Na⁺ Type

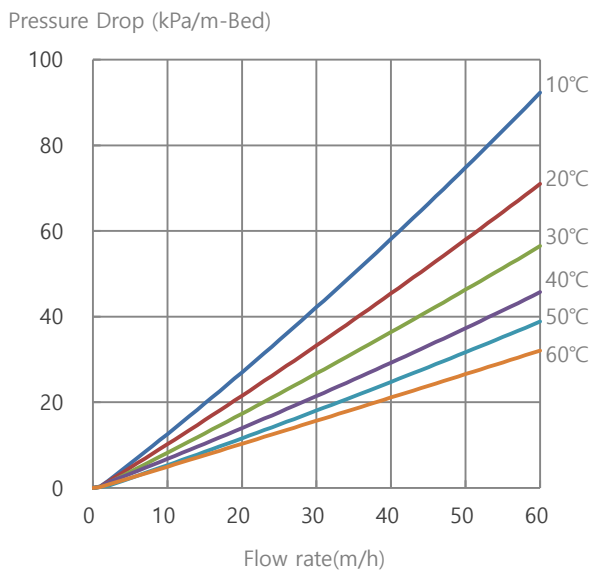


Figure 4. TRILITE® MC-08 H⁺ Type

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

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