

TRILITE® MC-08

Uniform Particle Size Acid Cation Exchange Resin

Rev.3 Feb 2023

TRILITE® MC-08 is a UPS, SAC gel-type 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

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

Recommended Operating Conditions

Operating Temp(°C)	120 ↓	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60

Regeneration

Regenerant	HCl / H ₂ SO ₄ / NaCl	Concentration(%)	HCl (4~10) / H ₂ SO ₄ (1~4) / NaCl (8~12)
Level(g/ℓ)	50~200	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE® MC-08 is used for general industrial water treatment such as water softening and demineralization, as well as lysine refining.

Hydraulic Characteristics

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

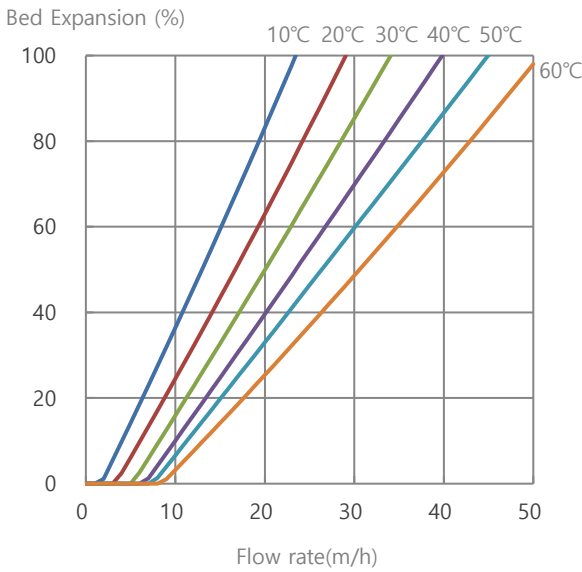


Figure 1. TRILITE® MC-08 Na⁺ Type

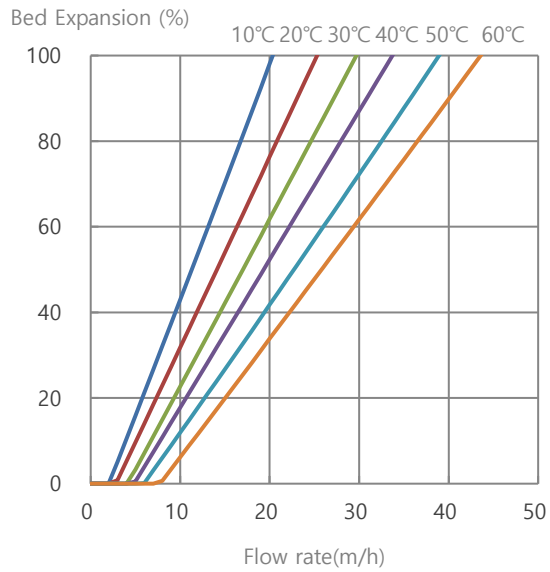


Figure 2. TRILITE® MC-08 H⁺ Type

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

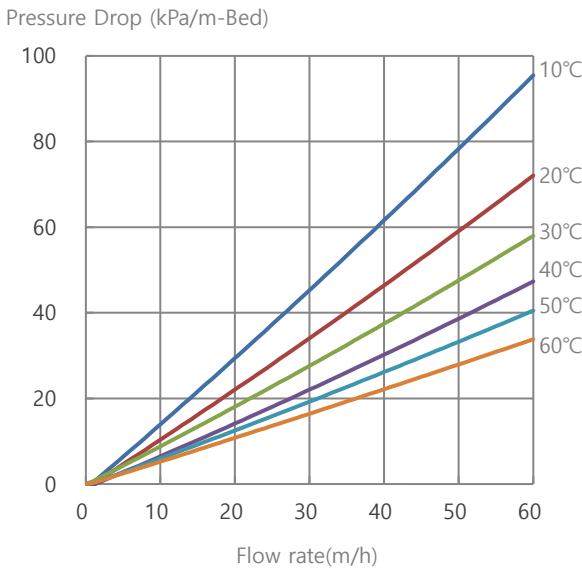


Figure 3. TRILITE® MC-08 Na⁺ Type

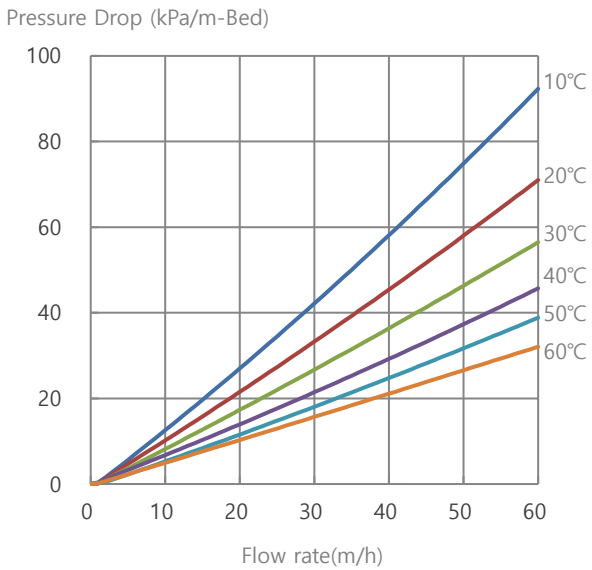


Figure 4. TRILITE® MC-08 H⁺ Type

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