Technical Data Sheet

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(℃)	120 ↓	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60
Regeneration			
Regenerant	HCl / H_2SO_4 / NaCl	Concentration(%)	HCl (4~10) / H_2SO_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.

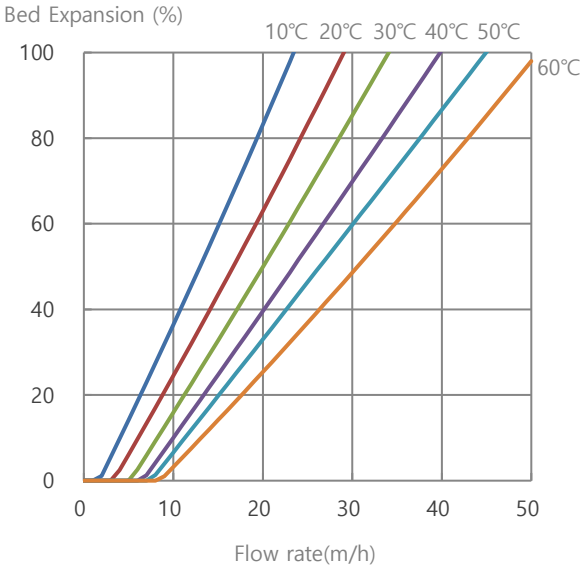

Figure 1. TRILITE® MC-08 Na^+ Type

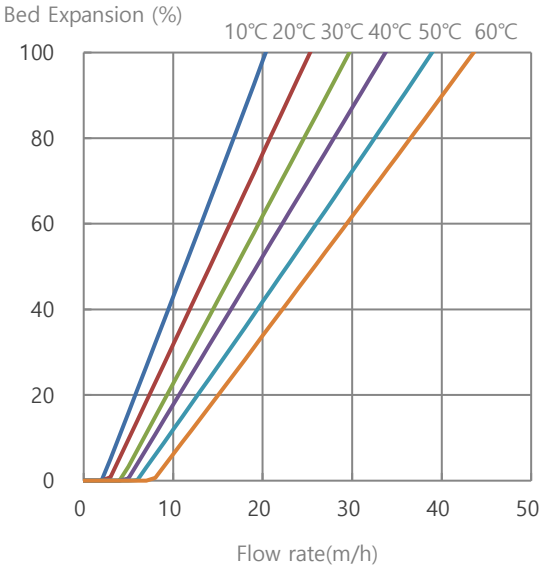

Figure 2. TRILITE® MC-08 H^+ Type

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

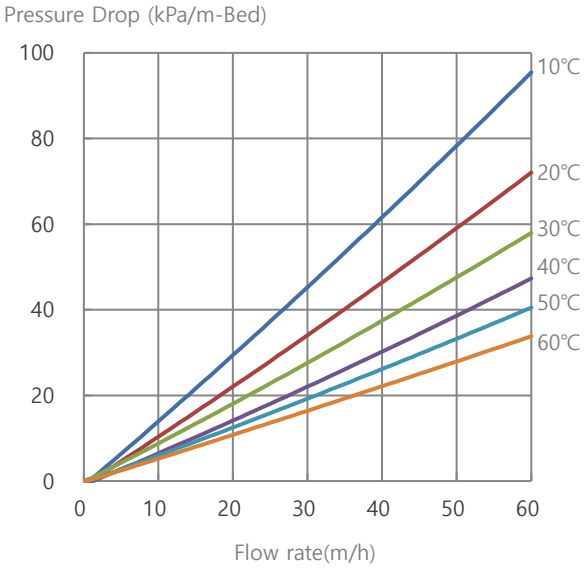

Figure 3. TRILITE® MC-08 Na^+ Type

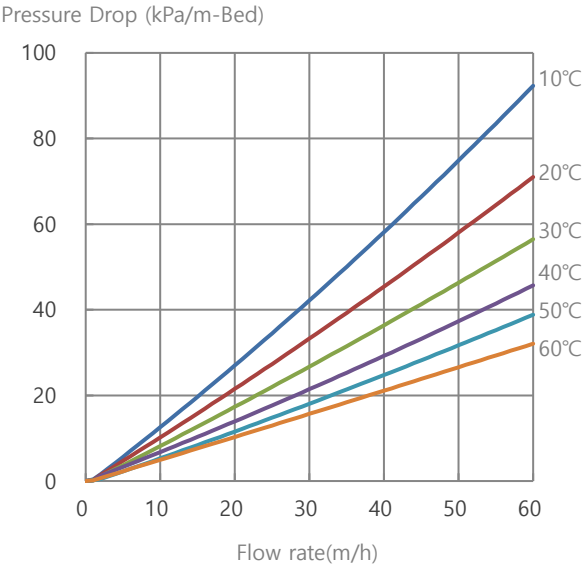

Figure 4. TRILITE® MC-08 H^+ Type

TRILITE
삼양 트리라이트
Ion Exchange Resin