Product Data Sheet

TRILITE® MC-10H

Uniform Particle Size Strong Acid Cation Exchange Resin

Rev.2 Nov 2018

TRILITE® MC-10H 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-10H is a high cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MC-10H can be supplied by H^+ form but Na^+ 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	H^+
Total Capacity(eq/ℓ)	2.00 ↑	Moisture Retention(%)	45~51
Shipping Density(g/ℓ)	800	Particle Density	1.22
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	660±50
Whole Beads(%)	95 ↑	Swelling(Na^+→H^+, %)	8

Recommended Operating Conditions			
Operating Temp(℃)	120	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120
Regeneration			
Regenerant	HCl, H_2SO_4	Concentration(%)	HCl(1~8), H_2SO_4(1~4)
Level(g/ℓ)	30~150	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE® MC-10H is widely used for softening, demineralization, and other special processes like catalyst reaction. Especially, TRILITE® MC-10H can be used for CPP(Condensate Polishing Plant) together with TRILITE® MA-10OH.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MC-10 as a function of flow rate and temperature.

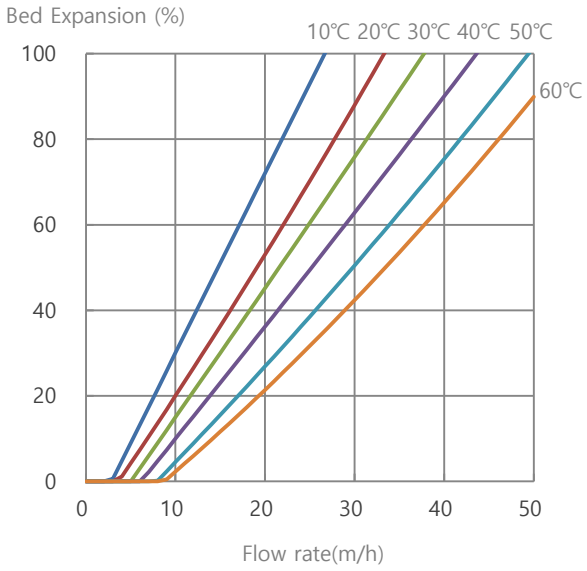

Figure 1. TRILITE® MC-10 Na^+ Type

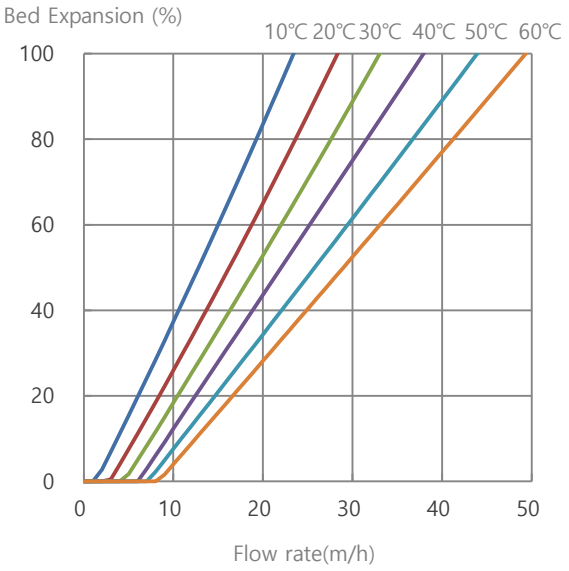

Figure 2. TRILITE® MC-10 H^+ Type

Figure 3 and 4 show the pressure drop of TRILITE® MC-10 as a function of flow rate and water temperature.

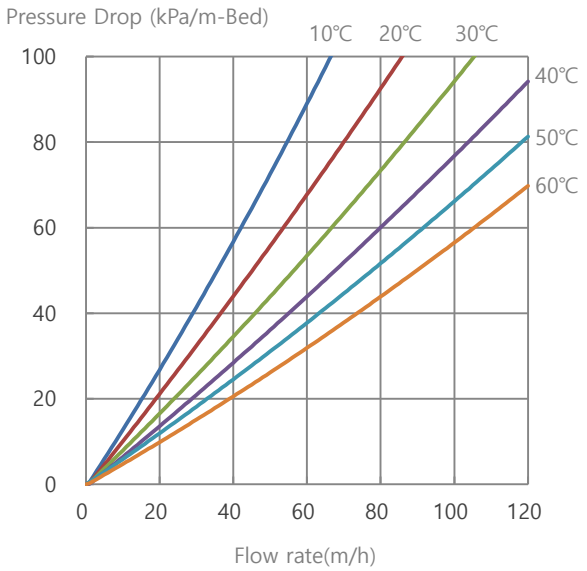

Figure 3. TRILITE® MC-10 Na^+ Type

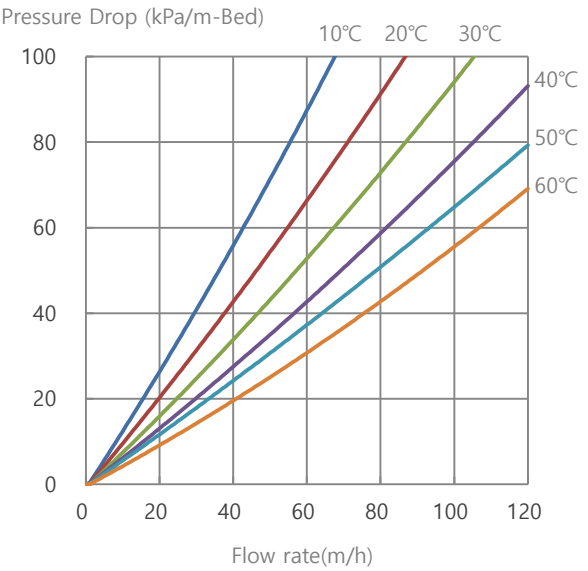

Figure 4. TRILITE® MC-10 H^+ Type

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

Samyang Corporation, 31 Jong-ro 33-gil, Jongno-gu, Seoul, Korea Tel: (02)740-7732~7, Fax: (02)740-7140

TRILITE
삼양 트리라이트
Ion Exchange Resin

http://samyangtrilite.com