TRILITE® MC-10

Uniform Particle Size Strong Acid Cation Exchange Resin

Rev.2 Nov 2018

TRILITE® MC-10 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-10 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-10 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)	2.20 ↑	Moisture Retention(%)	38~44
Shipping Density(g/l)	850	Particle Density	1.32
Uniformity Coefficient	1.1 ↓	Particle Size(µm)	650±50
Whole Beads(%)	95↑	Swelling(Na+→H+, %)	8

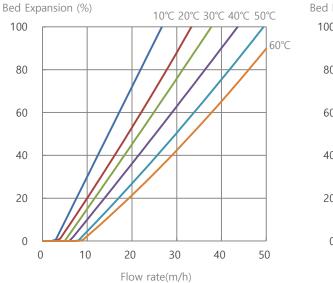
Recommended Operating Conditions				
Operating Temp(°C)	120	pH Range	0~14	
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120	
Regeneration				
Regenerant	HCl, H₂SO₄	Concentration(%)	HCI(1~8), H ₂ SO ₄ (1~4)	
Level(g/l)	30~150	Flow Rate(m/h)	2~10	
Rinse Requirement(BV)	2~6			

Applications

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

Hydraulic Characteristics

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



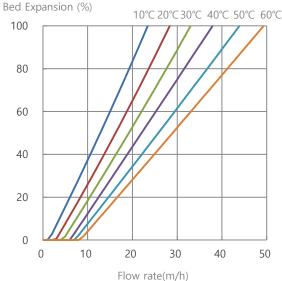
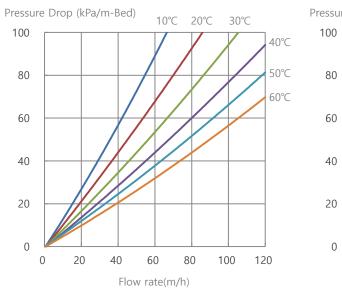


Figure 1. TRILITE® MC-10 Na⁺ Type

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.



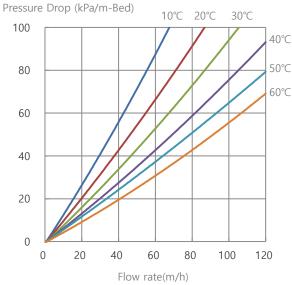


Figure 3. TRILITE® MC-10 Na⁺ Type

Figure 4. TRILITE® MC-10 H⁺ Type

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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



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