TRILITE® MC-10

Uniform Particle Size Strong Acid Cation Exchange Resin

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TRILITE® MC-10 is a UPS, SAC gel-type exchange resin with excellent ion removal capacity, which allows for the economical production of high-purity water. TRILITE® MC-10 is a highly cross-linked product with outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. It is supplied in its Na+form and can also be supplied in its H+ form.

Physical and Chemical Properties			
Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	2.20 ↑
Shipping Density(g/ℓ)	850	Moisture Retention(%)	38~44
Particle Density	1.32	Uniformity Coefficient	1.1 ↓
Particle Size(µm)	650±50	Swelling Rate(Na⁺→H⁺, %)	8
Whole Beads(%)	95↑		

Recommended Operating Conditions				
Operating Temp(°C)	120↓	pH Range	0~14	
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120	
Regeneration				
Regenerant	HCI / H ₂ SO ₄	Concentration(%)	HCI (4~10) / H ₂ SO ₄ (1~4))	
Level(g/l)	50~200	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.

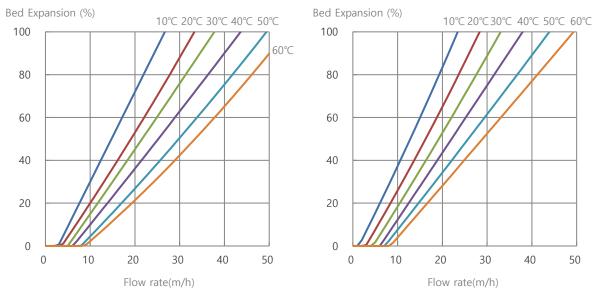
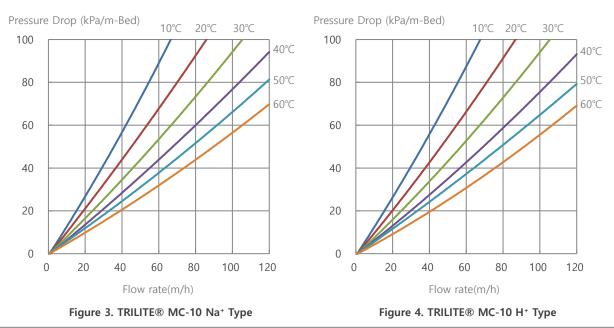


Figure 1. TRILITE® MC-10 Na⁺ Type

Figure 2. TRILITE® MC-10 H+ Type

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



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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



http://samyangtrilite.com