## TRILITE® MC-10H

Uniform Particle Size Strong Acid Cation Exchange Resin

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TRILITE® MC-10H는 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-10H 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 H+ form.

Physical and Chemical Properties			
Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	H <sup>+</sup>	Total Capacity(eq/l)	2.00 ↑
Shipping Density(g/l)	805	Moisture Retention(%)	45~51
Particle Density	1.22	Uniformity Coefficient	1.1 ↓
Particle Size(µm)	660±50	Swelling Rate(Na <sup>+</sup> →H <sup>+</sup> , %)	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	HCl / H <sub>2</sub> SO <sub>4</sub>	Concentration(%)	HCl (4~10) / H <sub>2</sub> SO <sub>4</sub> (1~4))	
Level(g/l)	50~200	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.

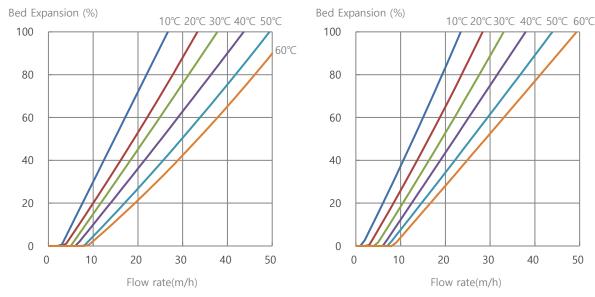


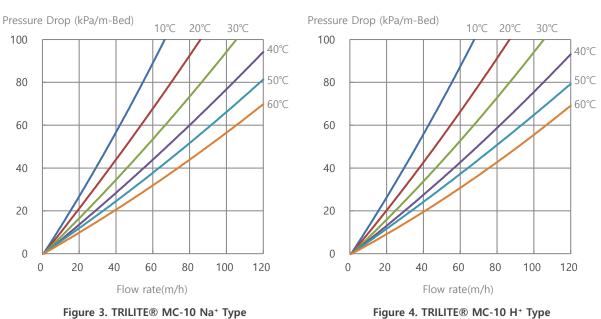
Figure 1. TRILITE® MC-10 Na<sup>+</sup> Type

Figure 2. TRILITE® MC-10 H+ Type

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Figure 3 and 4 show the pressure drop of TRILITE® MC-10 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



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