

TRILITE® MC-14H

Uniform Particle Size Strong Acid Cation Exchange Resin

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TRILITE® MC-14H Strong Acid Cation Exchange Resin is Gel Type Uniform Particle Size resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® MC-14H 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-14H is used for nuclear power plant in secondary circuit.

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)	2.40 ↑	Moisture Retention(%)	37~43
Shipping Density(g/ℓ)	815	Particle Density	1.32
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	650±50
Whole Beads(%)	95 ↑	Swelling(Na ⁺ →H ⁺ , %)	7

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 ₂ SO ₄	Concentration(%)	HCl(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-14H is used widely for nuclear power plant in the secondary circuit. Especially, TRILITE® MC-14H can be used for CPP(Condensate Polishing Plant) together with TRILITE® MA-15OH.

Hydraulic Characteristics

Figure 1 show the backwash expansion of TRILITE® MC-14H as a function of flow rate and temperature.

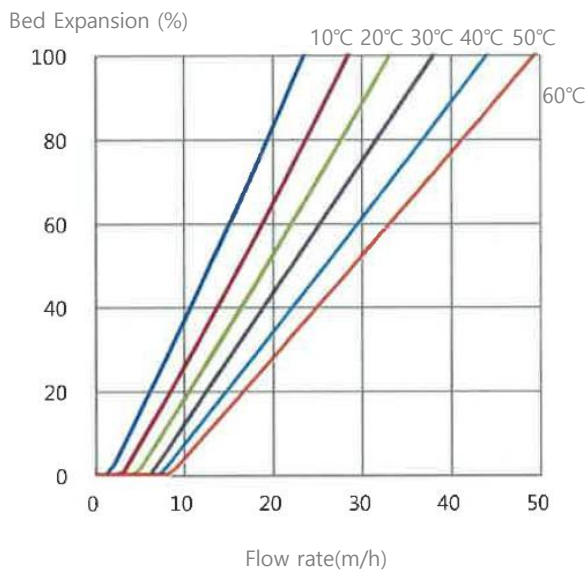


Figure 1. TRILITE® MC-14 H+ Type

Figure 2 show the pressure drop of TRILITE® MC-14H as a function of flow rate and water temperature.

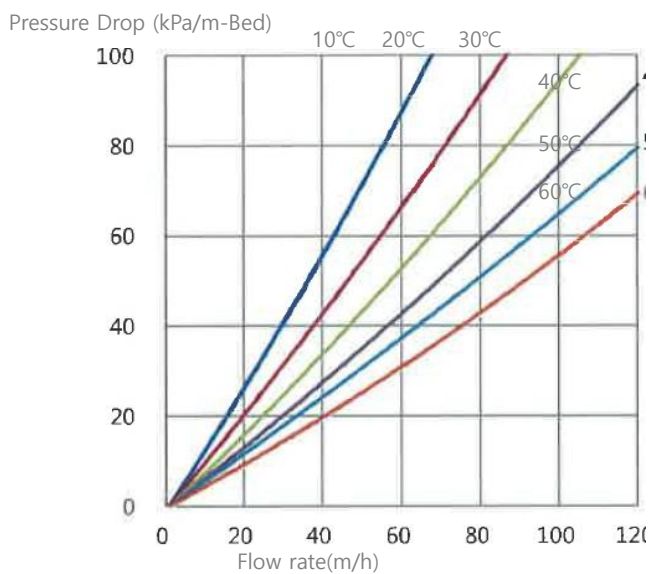


Figure 2. TRILITE® MC-14 H+ Type

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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



<http://samyangtrilite.com>