

TRILITE® MC-14M

Uniform Particle Size Acid Cation Exchange Resin

Rev.3 Feb 2023

TRILITE® MC-14M is a UPS, gel-type resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® MC-14M 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-14 is widely used for a premium application where extremely high exchange capacity is needed and it can be supplied in H⁺ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	2.50 ↑
Shipping Density(g/ℓ)	865	Moisture Retention(%)	31~37
Particle Density	1.36	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	540±50	Swelling Rate(Na ⁺ →H ⁺ , %)	7
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 ₂ SO ₄	Concentration(%)	HCl (1~8) / 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-14M is widely used for premium application where extremely high exchange capacity is required such as Primary circuit in nuclear power plants, etc.

All information contained in brochure is not absolute rather than relative one, created under the controlled environment by Samyang Corporation. Therefore, Samyang Corporation has no legal responsibility with respect to any and all information provided in brochure.

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>