Uniform Particle Size Strong Base Anion Exchange Resin

TRILITE[®] MA-12 is a standard cross-linked UPS, SBA, gel-type, type1 exchange resin with excellent ion removal capacity, allowing for economical production of high-purity water. TRILITE[®] MA-12 has outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its CI- form and can also be supplied in its OH- form.

Physical and Chemical Properties				
Matrix	Polystyrene+DVB, Gel	Functional Group	Type 1 (Trimethylammonium)	
Ionic Form	Cl-	Total Capacity(eq/l)	1.30 ↑	
Shipping Density(g/l)	670	Moisture Retention(%)	49~55	
Particle Density	1.08	Uniformity Coefficient	1.1↓	
Particle Size(µm)	575±50	Swelling Rate (Cl ⁻ →OH ⁻ , %)	24	
Whole Beads(%)	95 ↑			

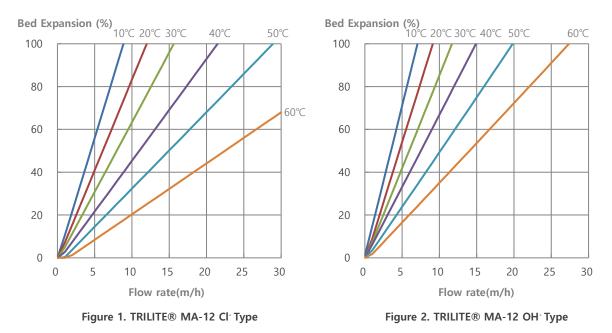
Recommended Operating Conditions			
Operating Temp(°C)	60 ↓ (OH-) 80 ↓ (Cl-)	pH Range	0-14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60
Regeneration			
Regenerant	NaOH	Concentration(%)	2~8
Level(g/l)	50~150	Flow Rate(m/h)	2~8
Rinse Requirement(BV)	2~6		

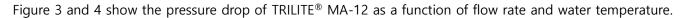
Applications

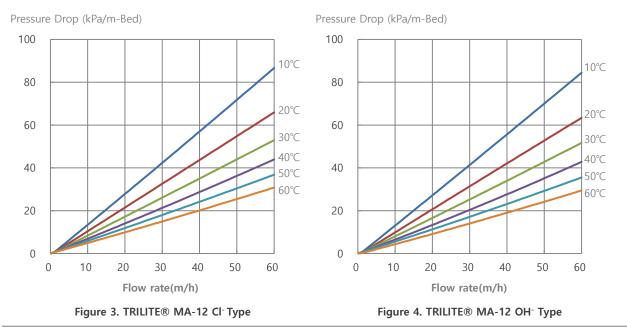
TRILITE[®] MA-12 is used for special purification applications such as water treatment, metal recovery, and sugar solutions due to its high SiO2 removal ability and thermal resistance compared to TRILITE[®] MA-20.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MA-12 as a function of flow rate and temperature.







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

