Product Data Sheet

TRILITE® MA-10

Uniform Particle Size Strong Base Anion Exchange Resin

Rev.2 Nov 2018

TRILITE® MA-10 Strong Base Anion Exchange Resin is a Gel Type 1 Uniform Particle Size resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® MA-10 is a high crosslinkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MA-10 can be supplied by OH^- form but Cl^- form can be available depending on application and user's request.

Physical and Chemical Properties			
Physical Form	Beige translucent spherical beads	Matrix	Styrene-DVB, Gel
Functional Group	Type 1 (Quarternary amine)	Ionic Form	Cl^-
Total Capacity(eq/ℓ)	1.35 ↑	Moisture Retention(%)	43~49
Shipping Density(g/ℓ)	675	Particle Density	1.08
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	550±50
Whole Beads(%)	95 ↑	Swelling (Cl^-→OH^-, %)	23

Recommended Operating Conditions			
Operating Temp(℃)	80(Cl^-), 60(OH^-)	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120
Regeneration			
Regenerant	NaOH	Concentration(%)	2~8
Level(g/ℓ)	50~150	Flow Rate(m/h)	2~8
Rinse Requirement(BV)	2~8		

Applications

TRILITE® MA-10 is used for demineralization, metal recovery, and other special process. Especially, TRILITE® MA-10 can be used for CPP(Condensate Polishing Plant) together with TRILITE® MC-10.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MA-10 as a function of flow rate and temperature.

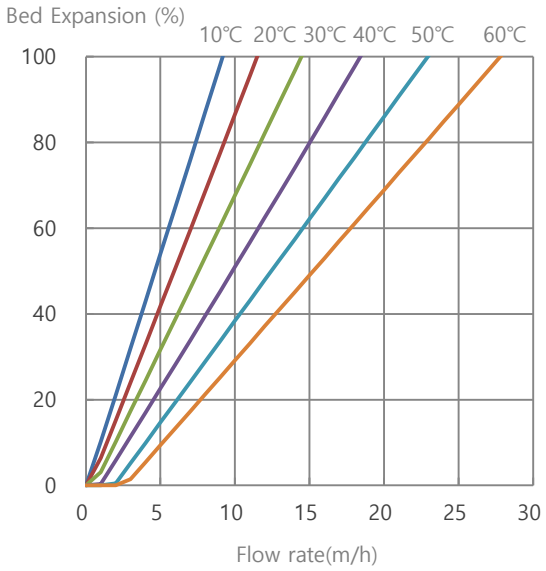

Figure 1. TRILITE® MA-10 Cl^- Type

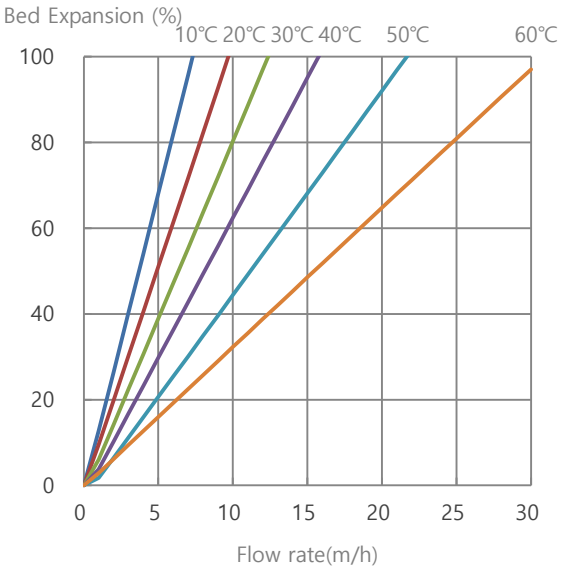

Figure 2. TRILITE® MA-10 OH^- Type

Figure 3 and 4 show the pressure drop of TRILITE® MA-10 as a function of flow rate and water temperature.

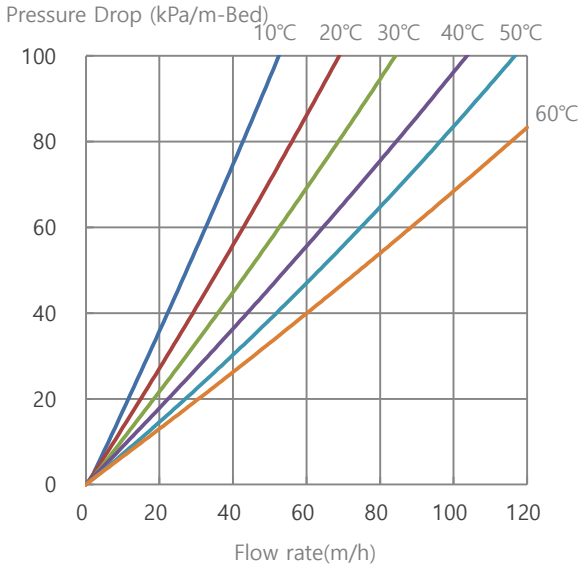

Figure 3. TRILITE® MA-10 Cl^- Type

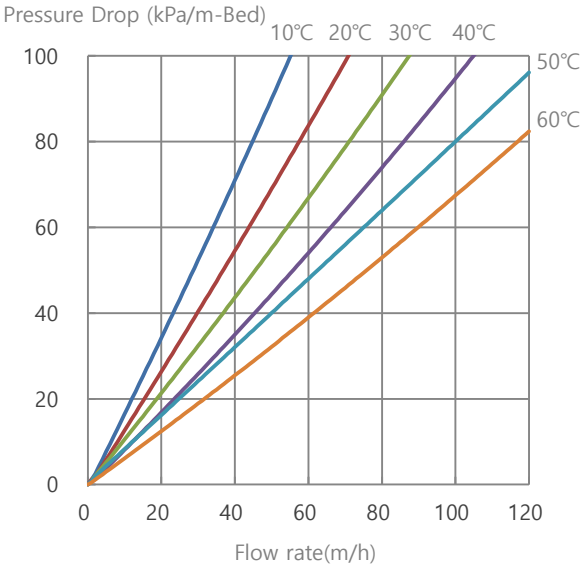

Figure 4. TRILITE® MA-10 OH^- Type

Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

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TRILITE
삼양 트리라이트
Ion Exchange Resin

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