

**TRILITE® MA-12**

Uniform Particle Size Strong Base Anion Exchange Resin

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TRILITE® MA-12 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-12 is a standard crosslinkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MA-12 can be supplied by Cl<sup>-</sup> form but OH<sup>-</sup> 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 <sup>-</sup>
Total Capacity(eq/ℓ)	1.30 ↑	Moisture Retention(%)	49~55
Shipping Density(g/ℓ)	670	Particle Density	1.08
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	575±50
Whole Beads(%)	95 ↑	Swelling (Cl <sup>-</sup> →OH <sup>-</sup> , %)	24

**Recommended Operating Conditions**

Operating Temp(°C)	80(Cl <sup>-</sup> ), 60(OH <sup>-</sup> )	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 has better heat resistant and SiO<sub>2</sub> treatment efficiency, compared with TRILITE® MA-20, thus being widely used for various applications including demineralization, metal recovery, and special refinement like sugar solution.

## Hydraulic Characteristics

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

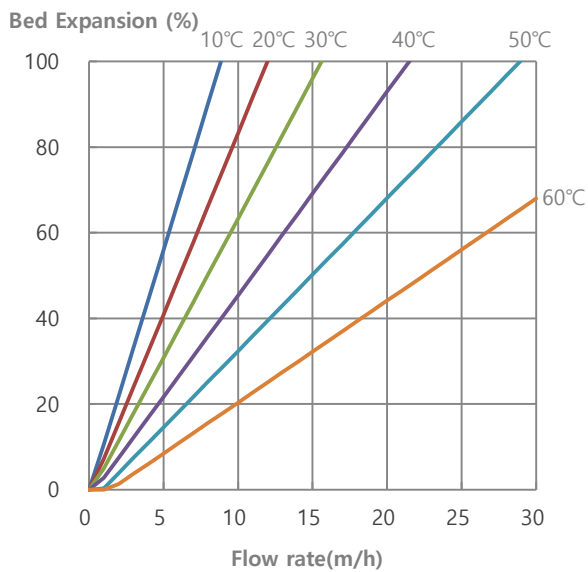


Figure 1. TRILITE® MA-12 Cl- Type

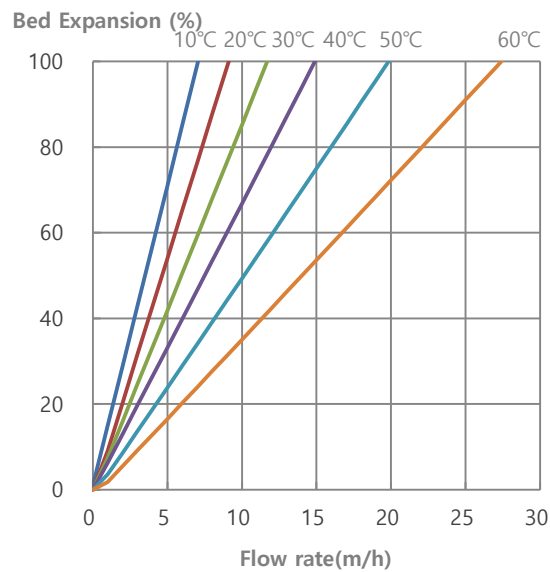


Figure 2. TRILITE® MA-12 OH- Type

Figure 3 and 4 show the pressure drop of TRILITE® MA-12 as a function of flow rate and water temperature.

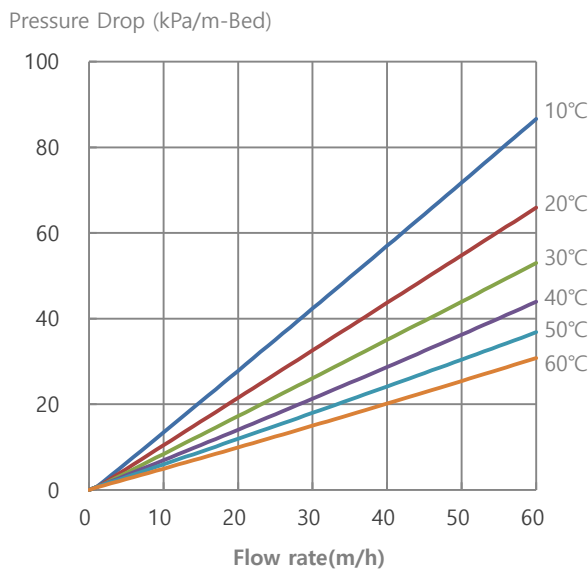


Figure 3. TRILITE® MA-12 Cl- Type

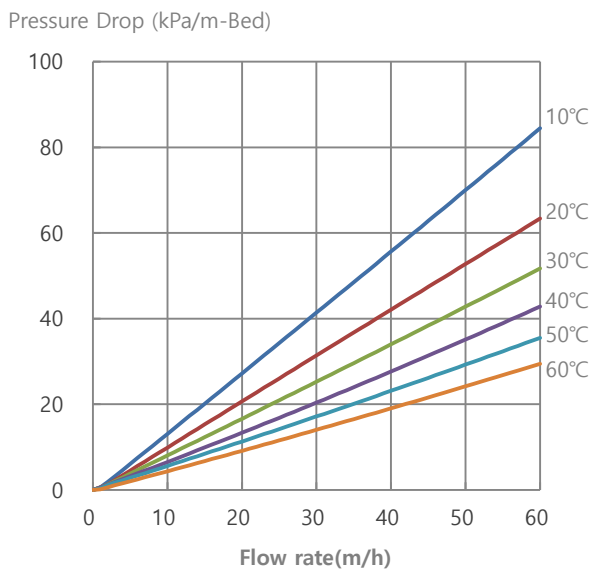


Figure 4. TRILITE® MA-12 OH- Type

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