

TRILITE® MA-12OH

Uniform Particle Size Strong Base Anion Exchange Resin

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TRILITE® MA-12OH 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-12OH 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-12OH 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	OH ⁻
Total Capacity(eq/ℓ)	1.00 ↑	Moisture Retention(%)	62~70
Shipping Density(g/ℓ)	675	Particle Density	1.07
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	620±50
Whole Beads(%)	90 ↑	Swelling (Cl ⁻ →OH ⁻ , %)	24

Recommended Operating Conditions

Operating Temp(°C)	80(Cl ⁻), 60(OH ⁻)	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-12OH has better heat resistant and SiO₂ treatment efficiency, compared with TRILITE® MA-20OH, thus being widely used for various applications including demineralization, metal recovery.

Hydraulic Characteristics

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

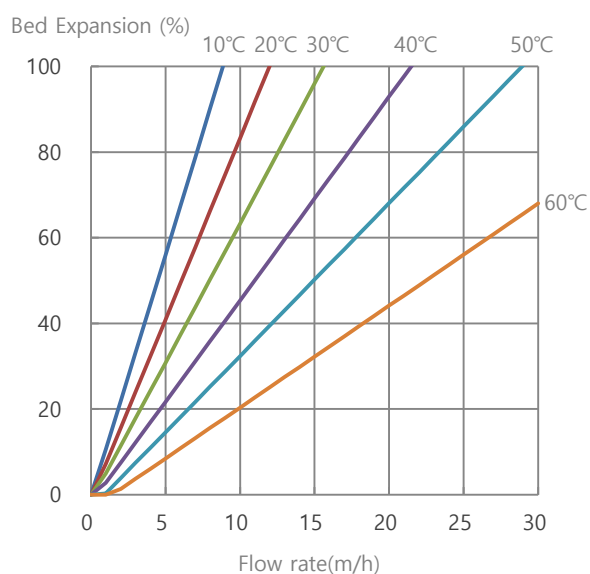


Figure 1. TRILITE® MA-12 Cl⁻ Type

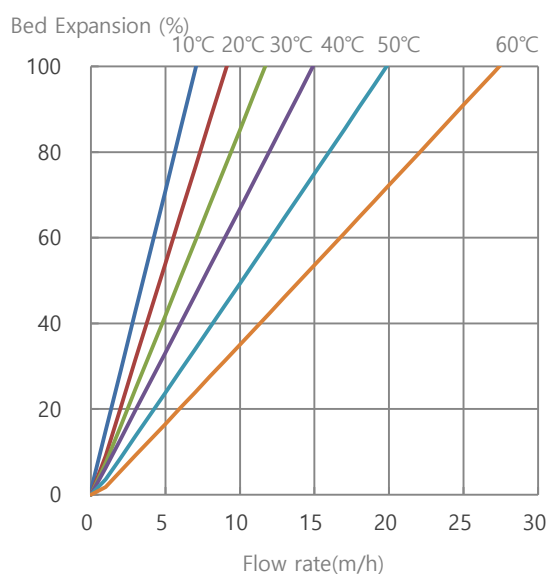


Figure 2. TRILITE® MA-12 OH⁻ Type

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

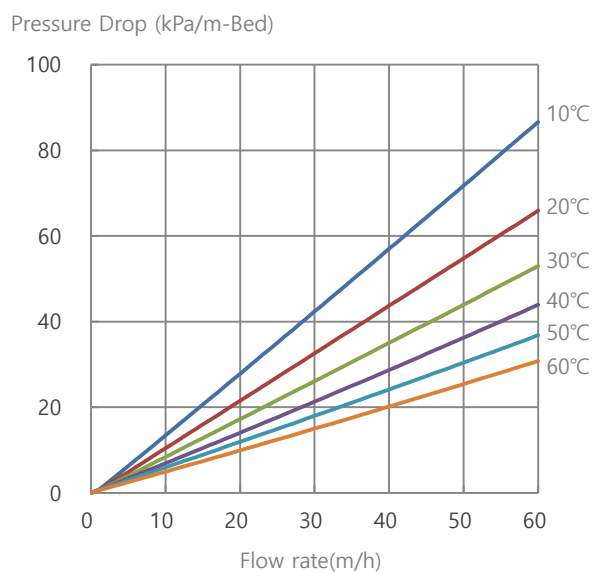


Figure 3. TRILITE® MA-12 Cl⁻ Type

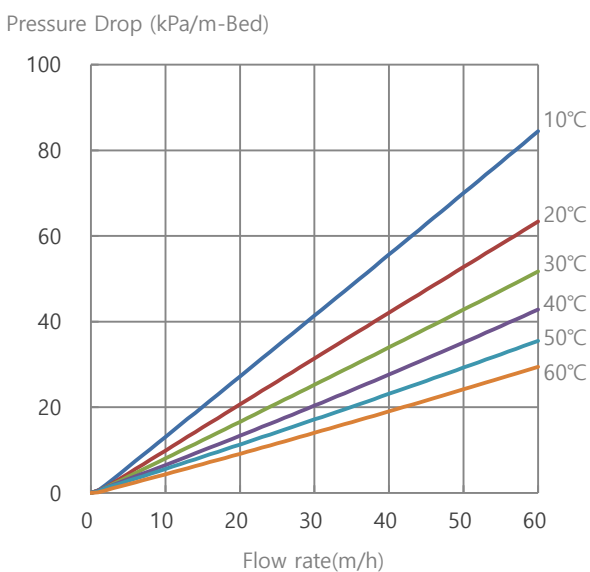


Figure 4. TRILITE® MA-12 OH⁻ Type

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