

TRILITE® MA-15

Uniform Particle Size Strong Base Anion Exchange Resin

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TRILITE® MA-15 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-15 has higher capacity than TRILITE® MA-15. Because of its uniform particle size distribution, TRILITE® MA-15 has characteristics of excellent rinse performance and outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MA-15 can be supplied by Cl⁻ form but OH⁻ 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)	1.40 ↑	Moisture Retention(%)	39~45
Shipping Density(g/ℓ)	705	Particle Density	1.08
Uniformity Coefficient	1.1 ↓	Particle Size(OH ⁻ m)	600±50
Whole Beads(%)	95 ↑	Swelling (Cl ⁻ →OH ⁻ , %)	22

Recommended Operating Conditions

Operating Temp(°C)	90(Cl ⁻), 70(OH ⁻)	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	10~60
Regeneration			
Regenerant	NaOH	Concentration(%)	2~8
Level(g/ℓ)	50~200	Flow Rate(m/h)	2~8
Rinse Requirement(BV)	2~10		

Applications

TRILITE® MA-15 can be used for many applications like demineralization and other special processes. Especially, TRILITE® MA-15 can also be used for various systems like packed bed and mixed bed units including CPP(Condensate Polishing Plant).

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MA-15 as a function of flow rate and temperature.

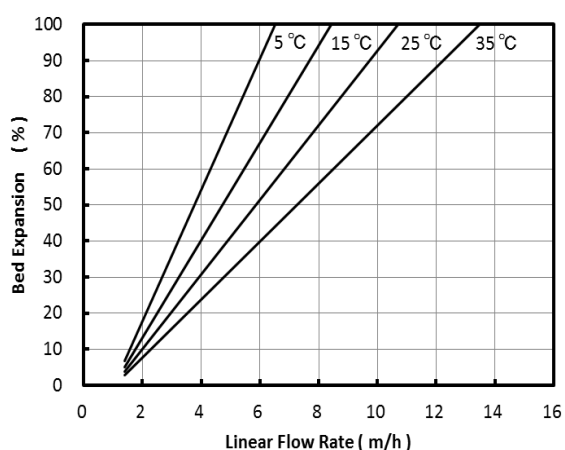


Figure 1. TRILITE® MA-15 Cl⁻ Type

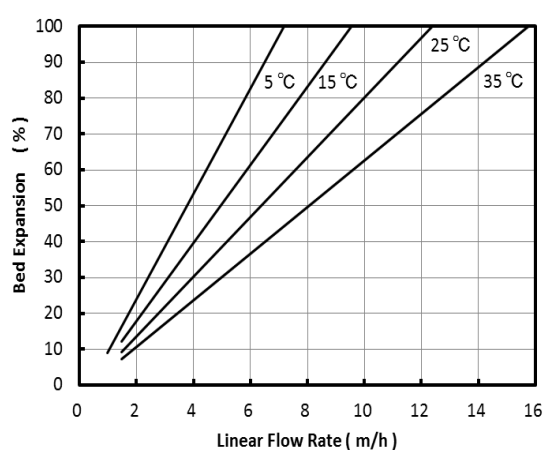


Figure 2. TRILITE® MA-15 OH⁻ Type

Figure 3 and 4 show the pressure drop of TRILITE® MA-15 as a function of flow rate and water temperature.

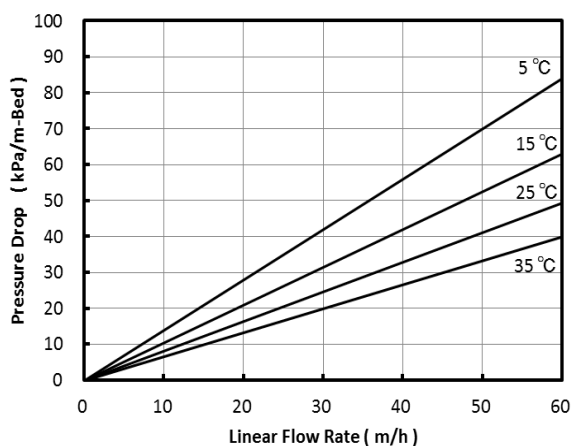


Figure 3. TRILITE® MA-15 Cl⁻ Type

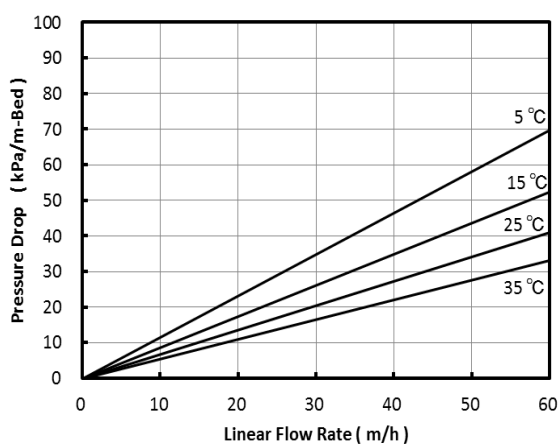


Figure 4. TRILITE® MA-15 OH⁻ Type

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

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