

TRILITE® MA-20

Uniform Particle Size Strong Base Anion Exchange Resin

Rev 3. Jan 2023

TRILITE® MA-20 is a standard cross-linked UPS, SBA, gel, type2 exchange resin with excellent ion removal capacity, allowing for economical production of high-purity water. TRILITE® MA-20 has outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its Cl⁻ form and can also be supplied in its OH⁻ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Type 2 (Dimethylethanolammonium)
Ionic Form	Cl ⁻	Total Capacity(eq/ℓ)	1.3 ↑
Shipping Density(g/ℓ)	700	Moisture Retention(%)	45~51
Particle Density	1.11	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	590±50	Swelling Rate (Cl ⁻ →OH ⁻ , %)	14
Whole Beads(%)	95 ↑		

Recommended Operating Conditions

Operating Temp(°C)	60 ↓ (Cl ⁻), 40 ↓ (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)	2~8		

Applications

TRILITE® MA-20 is used for water treatment and special refining purposes due to its high regeneration efficiency compared to TRILITE® MA-12.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MA-20 as a function of flow rate and temperature.

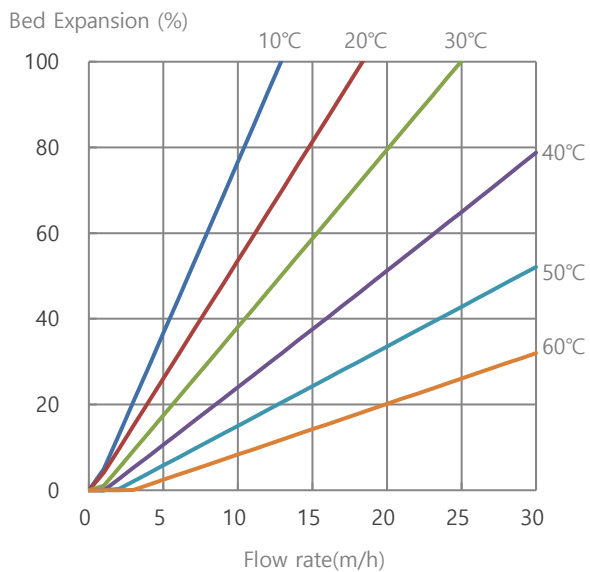


Figure 1. TRILITE® MA-20 Cl⁻ Type

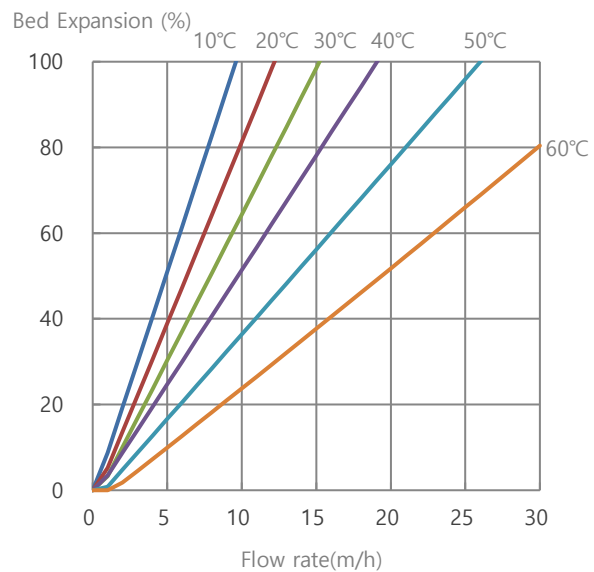


Figure 2. TRILITE® MA-20 OH⁻ Type

Figure 3 and 4 show the pressure drop of TRILITE® MA-20 as a function of flow rate and water temperature.

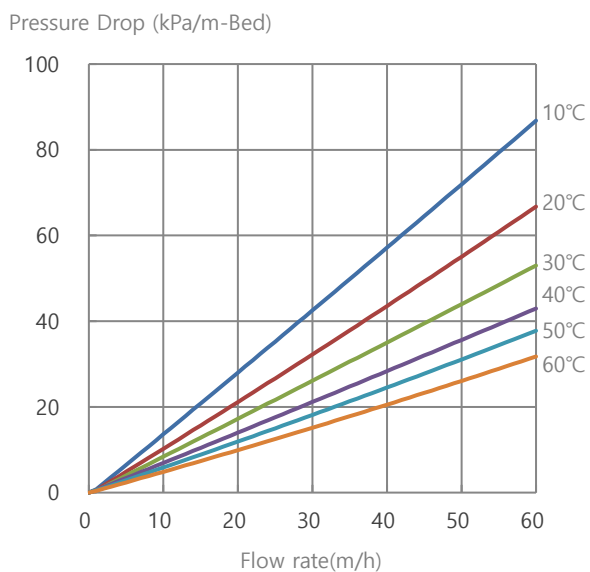


Figure 3. TRILITE® MA-20 Cl⁻ Type

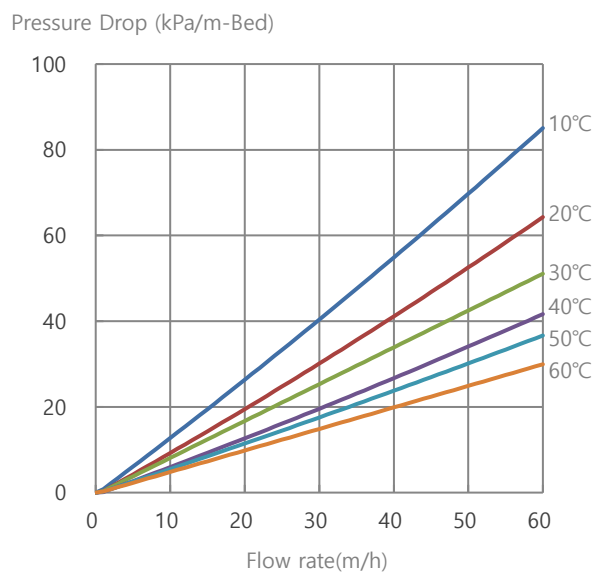


Figure 4. TRILITE® MA-20 OH⁻ Type

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



<http://samyangtrilite.com>