Product Data Sheet

TRILITE® SAR20MB

Strong Base Anion Exchange Resin

Rev.1 July 2018

TRILITE® SAR20MB Strong Base Anion Exchange Resin is a Gel Type 2 polydispersed resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® SAR20MB is a standard cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® SAR20MB 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 2 (Dimethylethanolammonium)	Ionic Form	Cl^-
Total Capacity(eq/ℓ)	1.30 ↑	Moisture Retention(%)	45~52
Shipping Density(g/ℓ)	715	Particle Density	1.13
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.3~1.2
Whole Beads(%)	90 ↑	Swelling (Cl^-→OH^-, %)	12

Recommended Operating Conditions

Operating Temp(℃)	40	pH Range	0~14
Bed Depth(mm)	1000	Service Flow Rate(m/h)	5~50
Regeneration			
Regenerant	NaOH	Concentration(%)	2~8
Level(g/ℓ)	60~200	Flow Rate(m/h)	4~10
Rinse Requirement(BV)	2.5~5		

Applications

TRILITE® SAR20MB has higher regeneration efficiency, compared with TRILITE® SAR10MB, thus being widely used for various applications including demineralization, metal recovery, and other special refinement.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® SAR20MB as a function of flow rate and temperature.

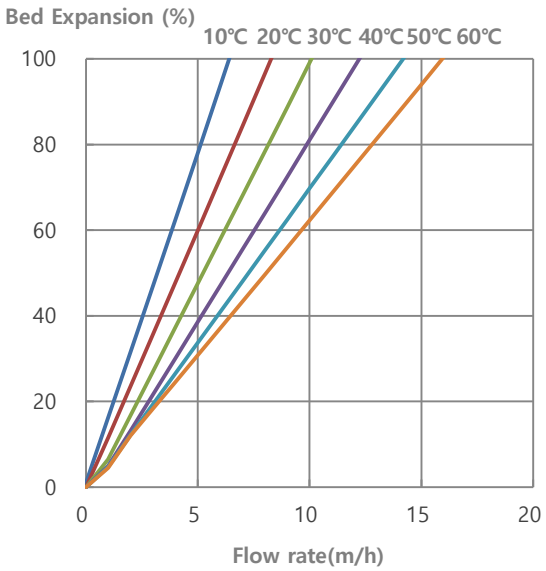

Figure 1. TRILITE® SAR20MB Cl^- Type

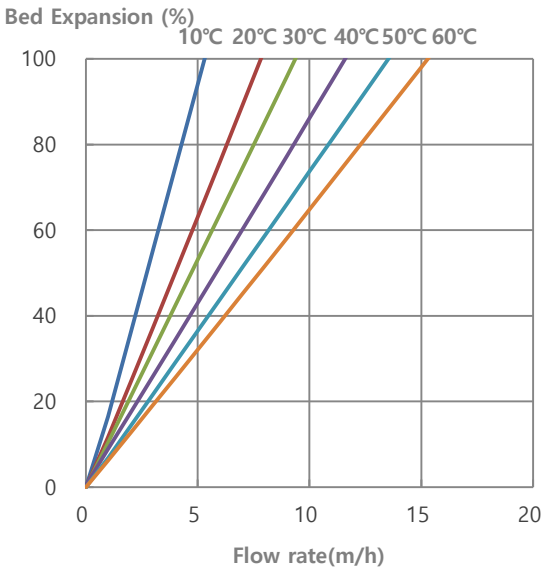

Figure 2. TRILITE® SAR20MB OH^- Type

Figure 3 and 4 show the pressure drop of TRILITE® SAR20MB as a function of flow rate and water temperature.

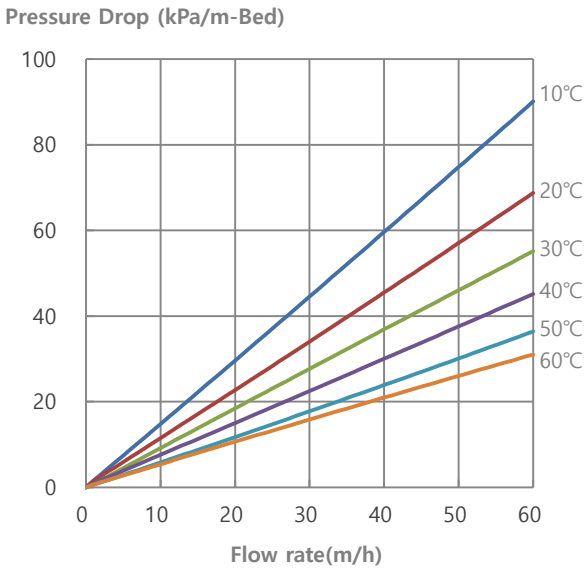

Figure 3. TRILITE® SAR20MB Cl^- Type

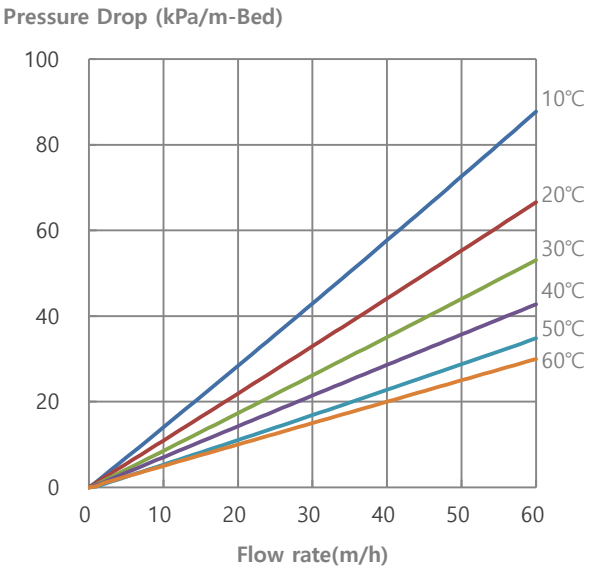

Figure 4. TRILITE® SAR20MB OH^- Type

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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