Product Data Sheet

TRILITE® SCR-B

Strong Acid Cation Exchange Resin

Rev.1 July 2018

TRILITE® SCR-B Strong Acid Cation Exchange Resin is a Gel Type polydispersed resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® SCR-B 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® SCR-B can be supplied by Na^+ form but H^+ form can be available depending on application and user's request.

Physical and Chemical Properties

Physical Form	Goldenrod translucent spherical beads	Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid	Ionic Form	Na^+
Total Capacity(eq/ℓ)	2.00 ↑	Moisture Retention(%)	43~50
Shipping Density(g/ℓ)	830	Particle Density	1.29
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.3~1.2
Whole Beads(%)	90 ↑	Swelling(Na^+→H^+, %)	8

Recommended Operating Conditions

Operating Temp(℃)	120	pH Range	0~14
Bed Depth(mm)	1000	Service Flow Rate(m/h)	5~50
Regeneration			
Regenerant	HCl, H_2SO_4	Concentration(%)	HCl(4~10), H_2SO_4(1~4)
Level(g/ℓ)	40~150	Flow Rate(m/h)	4~20
Rinse Requirement(BV)	4~10		

Applications

TRILITE® SCR-B is widely used not only for water treatment like softening and demineralization but also for various special applications like lysine, starch, sugar, pharmaceuticals, and catalysis reaction.

Hydraulic Characteristics

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

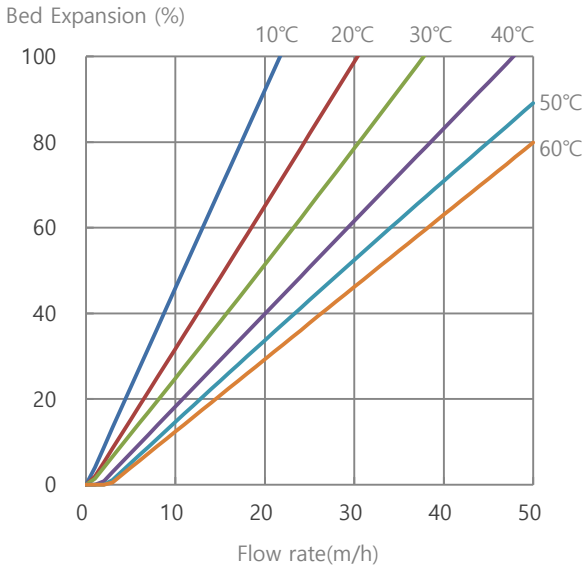

Figure 1. TRILITE® SCR-B Na^+ Type

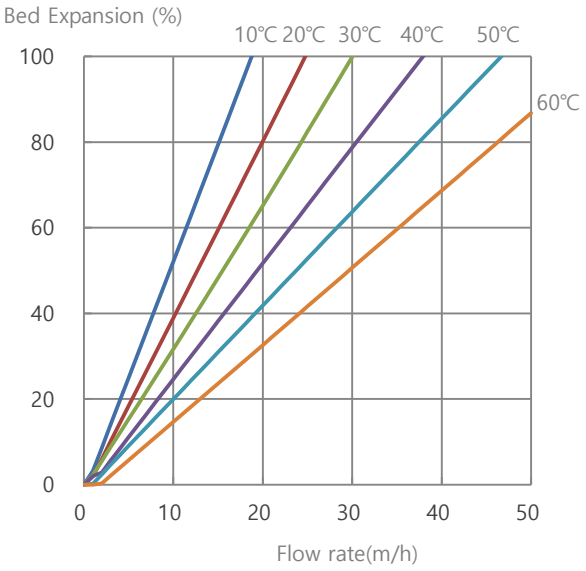

Figure 2. TRILITE® SCR-B H^+ Type

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

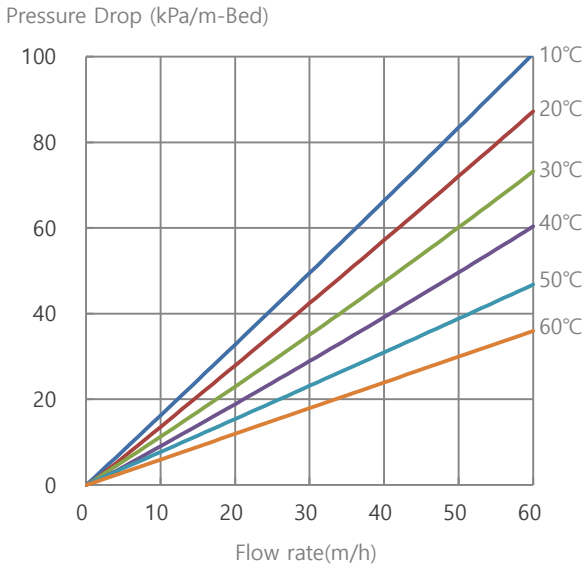

Figure 3. TRILITE® SCR-B Na^+ Type

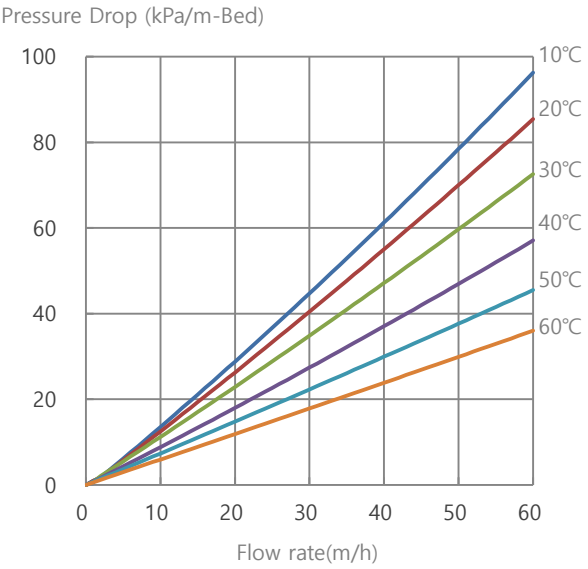

Figure 4. TRILITE® SCR-B H^+ Type

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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