

**TRILITE® SPC180H**

Catalyst (Strong Acid Cation Exchange Resin), Macroporous Type

TRILITE® SPC180H is strongly acidic exchange resin(porous type) with copolymer of styrene and DVB (Divinyl benzene). It has sulfonic acid as exchange groups. TRILITE® SPC180H is used for general water treatment such applications as deionization of water manufacturing high purity water, also suitable as catalysts in Esterification (1,4BDO, MMA), Etherification (MTBE/TAME/ETBE) and other reactions (Alkylation and Hydration)

**Physical and Chemical Properties**

Physical Form	Light brown opaque beads	Matrix	Styrene-DVB, Macroporous
Functional Group	Sulfonic acid	Ionic Form	H <sup>+</sup>
Total Capacity(eq/ℓ)	1.5 ↑	Moisture Retention(%)	53~60
Shipping Density(g/ℓ)	750	Particle Density	1.27
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.40~1.18
Whole Beads(%)	95 ↑	Mean Particle Size(mm)	0.40 ↑
Swelling Rate (%)	8.0		

**Recommended Operating Conditions**

Operating Temp(°C)	120(H <sup>+</sup> )	pH Range	0~14
Bed Depth(mm)	750	Service Flow Rate(m/h)	8~40

**Applications**

TRILITE® SPC180H is recommended for not only for water treatment, but also various applications including Esterification (1,4BDO,MMA), Etherification (MTBE/TAME/ETBE) and other reactions (Alkylation and Hydration).

## Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® SPC180H as a function of flow rate and temperature.

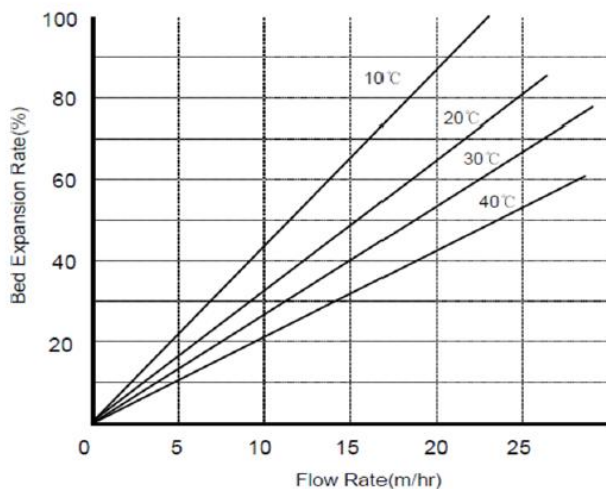


Figure 1. TRILITE® SPC180H Bed Expansion

Figure 2 shows the pressure drop of TRILITE® SPC180H as a function of flow rate and water temperature.

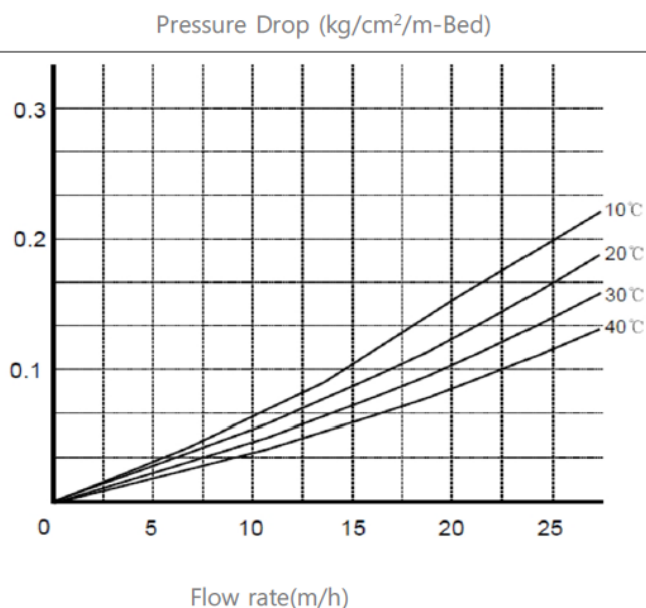


Figure 2. TRILITE® SPC180H Pressure Drop

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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>