

TRILITE® CMP18

Strong Acid Cation Exchange Resin, Macroporous Type

Rev.1 July 2018

TRILITE® CMP18 is a strong acid cation exchange resin (Macroporous type) manufactured by the advanced technologies. It has high whole bead count, good resistance to mechanical attrition, excellent chemical and physical stability and high capacity. All these traits will help you to get pure water without much trouble for quite a long time. TRILITE® CMP18 is recommended for the cation agent in MBP where TRILITE® AMP series is to be the anion component for making demineralized water.

Physical and Chemical Properties

Physical Form	Light brown opaque beads	Matrix	Styrene-DVB, Macroporous
Functional Group	Sulfonic acid	Ionic Form	Na ⁺
Total Capacity(eq/ℓ)	1.80 ↑	Moisture Retention(%)	43~50
Shipping Density(g/ℓ)	795	Particle Density	1.30
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.30~1.18
Swelling (Na ⁺ →H ⁺ , %)	8		

Recommended Operating Conditions

Operating Temp(°C)	120(H ⁺), 140(Na ⁺)	pH Range	0~14
Bed Depth(mm)	750	Service Flow Rate(m/h)	8~40
Regeneration			
Regenerant	HCl	Concentration(%)	3~10
Level(g/ℓ)	50~160	Flow Rate(BV/hr)	4~8
Rinse Requirement(BV)	5~10		

Applications

TRILITE® CMP18 is recommended for not only for water treatment, but also various applications including refining sugar solutions, gelatin and pharmaceutical solutions. It is also used in other fields such as catalyst.

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® CMP18 as a function of flow rate and temperature.

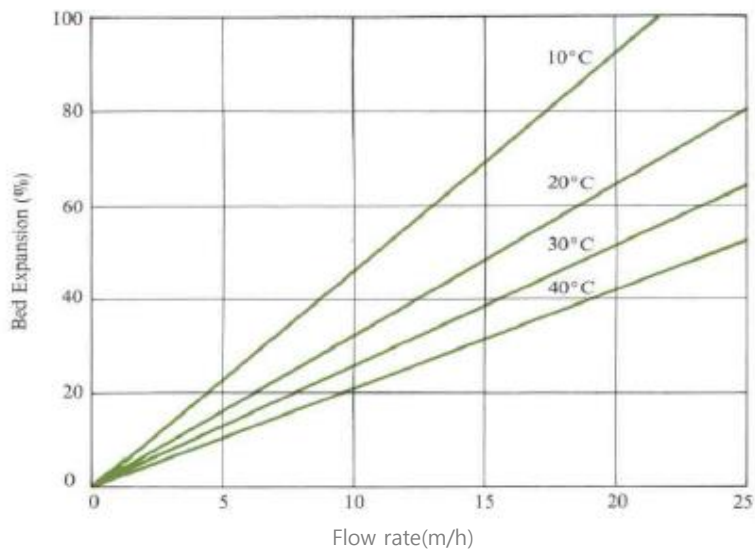


Figure 1. TRILITE® CMP18 Backwash Expansion

Figure 2 shows the pressure drop of TRILITE® CMP18 as a function of flow rate and water temperature.

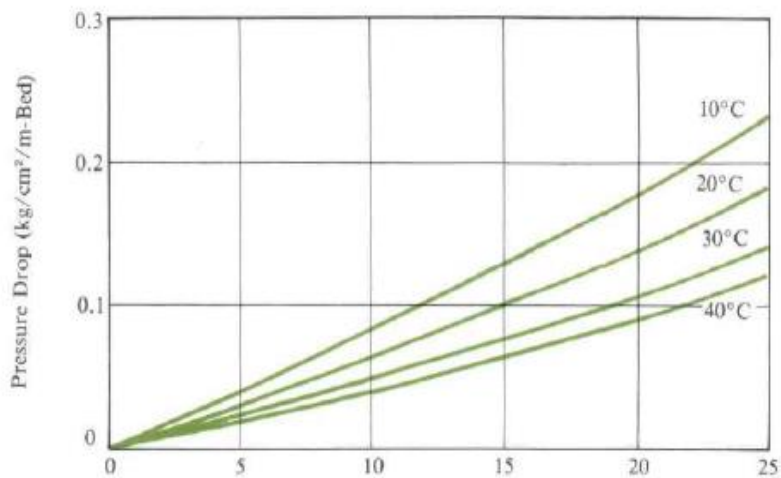


Figure 2. TRILITE® CMP18 Pressure Drop

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