

TRILITE® CMP18

Gaussian Strong Acid Cation Exchange Resin, Macroporous

Rev 3. Jan 2023

TRILITE® CMP18 is a SAC, macroporous type resin. 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

Matrix	Styrene-DVB, Macroporous	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	4.35 ↑
Shipping Density(g/ℓ)	1.8 ↑	Moisture Retention(%)	795
Particle Density	43~50	Uniformity Coefficient	1.6 ↓
Particle Size(μm)	425~1200	Swelling Rate(Na ⁺ →H ⁺ , %)	8
Whole Beads(%)	95 ↑		

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(m/h)	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

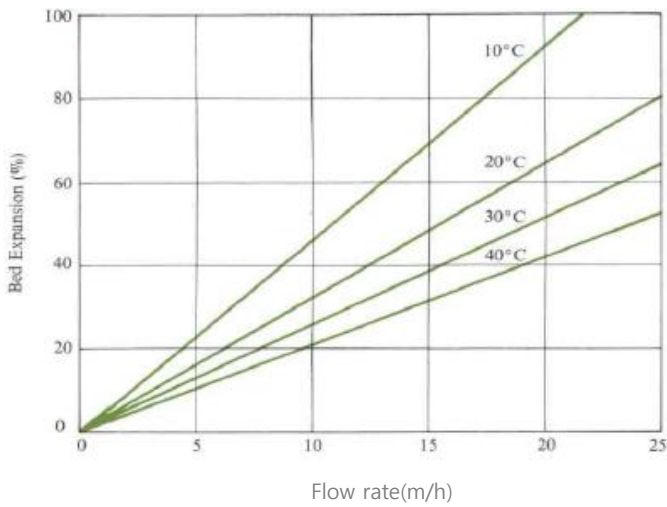


Figure 1. TRILITE® CMP18

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

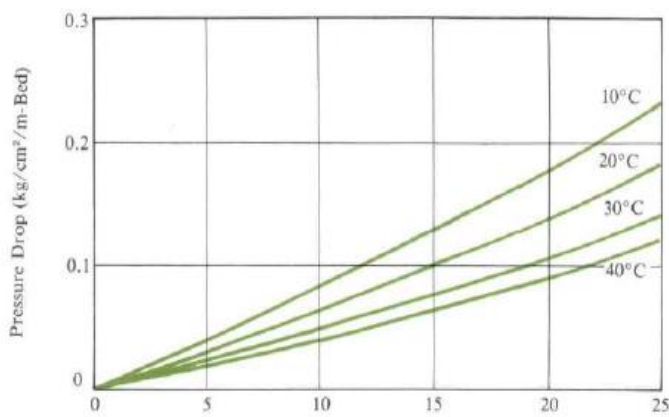


Figure 2. TRILITE® CMP18

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

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Ion Exchange Resin

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