

TRILITE® CMP28LH

Strong Acid Cation Exchange Resin, Macroporous Type

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TRILITE® CMP28LH 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 with much trouble for quite a long time. TRILITE® CMP28LH is recommended for the cation agent in MBP where TRILITE® AMP series is to be the anion component for making pure water or being used in Condensate Polisher.

Physical and Chemical Properties

Physical Form	Light brown opaque beads	Matrix	Styrene-DVB, Macroporous
Functional Group	Sulfonic acid	Ionic Form	H ⁺
Total Capacity(eq/ℓ)	1.90 ↑	Moisture Retention(%)	42~48
Shipping Density(g/ℓ)	780	Particle Density	1.30
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.40~1.18
Whole Beads(%)	95 ↑	Swelling (Na ⁺ →H ⁺ , %)	5.8

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® CMP28LH is recommended for not only for water treatment, but also various applications including refining gelatin. It is especially used in Condensate Polisher.

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® CMP28LH as a function of flow rate and temperature.

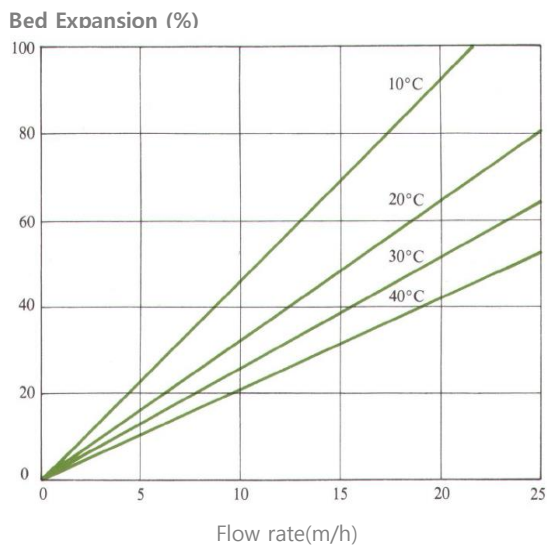


Figure 1. TRILITE® CMP28LH H⁺ type

Figure 2 shows the pressure drop of TRILITE® CMP28LH as a function of flow rate and water temperature.

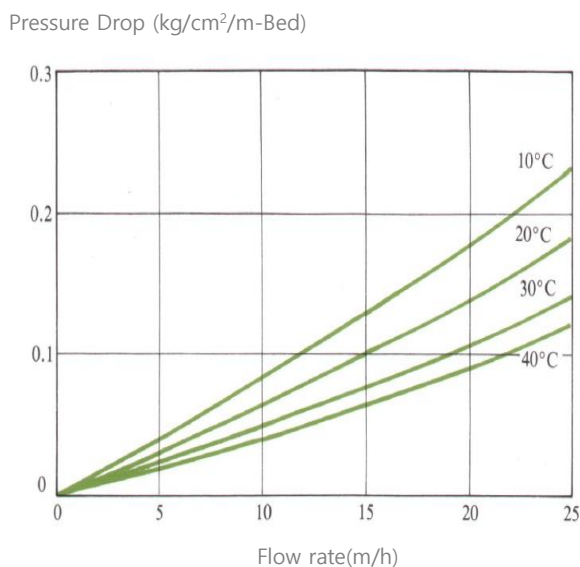


Figure 2. TRILITE® CMP28LH H⁺ type

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