

TRILITE® MCK-55

Uniform Particle Size Strong Acid Cation Exchange Resin

Rev.1 July 2018

TRILITE® MCK-55 Strong Acid Cation Exchange Resin is a Gel Type Uniform Particle Size resin. TRILITE® MCK-55 is a standard crosslinkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MCK-55 is supplied by Ca²⁺ form.

Physical and Chemical Properties

| | |
|------------------------|-----------------------------|
| Physical Form | Translucent spherical beads |
| Matrix | Styrene-DVB, Gel |
| Functional Group | Sulfonic acid |
| Ionic Form | Ca ²⁺ |
| Total Capacity(eq/ℓ) | 2.00 ↑ |
| Moisture Retention(%) | 42~46 |
| Shipping Density(g/ℓ) | 865 |
| Uniformity Coefficient | 1.1 ↓ |
| Particle Size(mm) | 0.19 ~ 0.24 (90% ↑) |
| Mean Particle Size(mm) | 0.22 |
| Whole Beads(%) | 95 ↑ |

Recommended Operating Conditions

| | |
|--------------------|------|
| Operating Temp(°C) | 120 |
| pH Range | 0~14 |

Applications

TRILITE® MCK-55 is recommended for industries such as Fructose & Glucose Separation, etc.

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® MCK-55 as a function of flow rate and temperature.

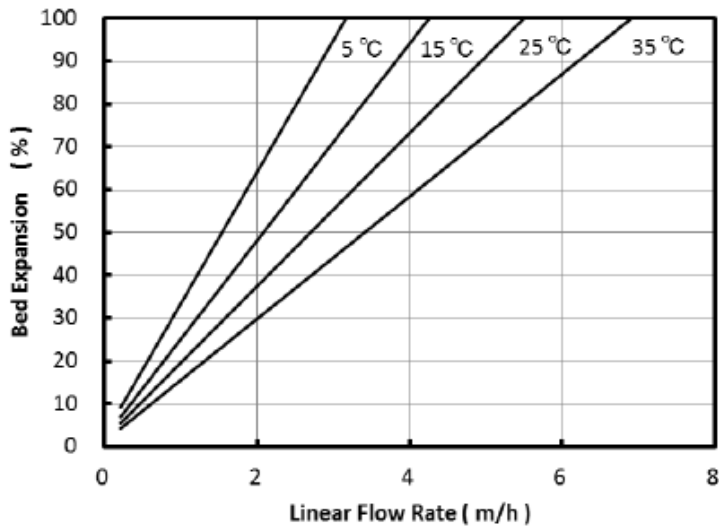


Figure 1. Backwash Expansion of TRILITE® MCK-55

Figure 2 shows the pressure drop of TRILITE® MCK-55 as a function of flow rate and water temperature.

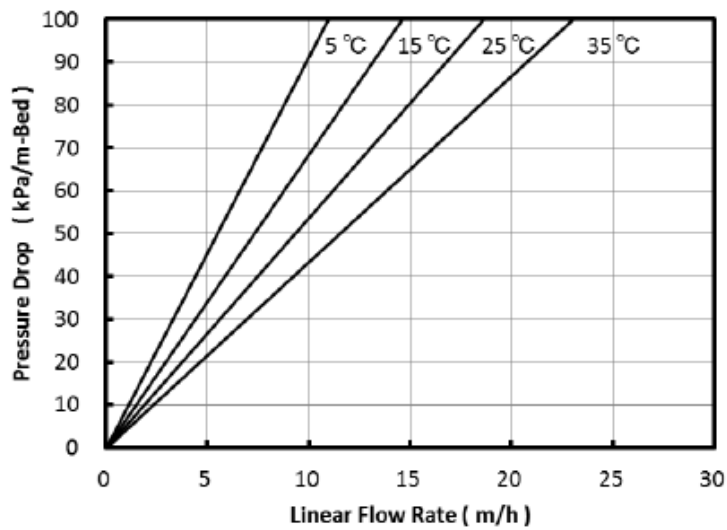


Figure 2. Pressure Drop of TRILITE® MCK-55

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