

**TRILITE® MA-10**

Uniform Particle Size Strong Base Anion Exchange Resin

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TRILITE® MA-10 is a high cross-linked, UPS, SBA, gel-type, type 1 exchange resin with excellent ion removal capacity, allowing for economical production of high-purity water. TRILITE® MA-10 has outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its Cl<sup>-</sup> form and can also be supplied in its OH<sup>-</sup> form.

**Physical and Chemical Properties**

|                       |                      |                                                         |                          |
|-----------------------|----------------------|---------------------------------------------------------|--------------------------|
| Matrix                | Polystyrene+DVB, Gel | Functional Group                                        | Type1(Trimethylammonium) |
| Ionic Form            | Cl <sup>-</sup>      | Total Capacity(eq/ℓ)                                    | 1.35 ↑                   |
| Shipping Density(g/ℓ) | 675                  | Moisture Retention(%)                                   | 43~49                    |
| Particle Density      | 1.08                 | Uniformity Coefficient                                  | 1.1 ↓                    |
| Particle Size(μm)     | 550±50               | Swelling Rate<br>(Cl <sup>-</sup> →OH <sup>-</sup> , %) | 23                       |
| Whole Beads(%)        | 95 ↑                 |                                                         |                          |

**Recommended Operating Conditions**

|                    |                                                  |                        |       |
|--------------------|--------------------------------------------------|------------------------|-------|
| Operating Temp(°C) | 60 ↓ (OH <sup>-</sup> ), 80 ↓ (Cl <sup>-</sup> ) | pH Range               | 0~14  |
| Bed Depth(mm)      | 800                                              | Service Flow Rate(m/h) | 5~120 |

**Regeneration**

|                       |        |                  |     |
|-----------------------|--------|------------------|-----|
| Regenerant            | NaOH   | Concentration(%) | 2~8 |
| Level(g/ℓ)            | 50~150 | Flow Rate(m/h)   | 2~8 |
| Rinse Requirement(BV) | 2~8    |                  |     |

**Applications**

TRILITE® MA-10 is used for special refining purposes such as water treatment, metal recovery, and sugar refining. It is particularly used in conjunction with TRILITE® MC-10 for CPP (Condensate Polishing Plant) applications in power plants.

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