

TRILITE® SAR12

Strong Base Anion Exchange Resin

Rev.1 July 2018

TRILITE® SAR12 Strong Base Anion Exchange Resin is a Gel Type 1 Polydispersed resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® SAR12 is a standard cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® SAR12 can be supplied by Cl⁻ form but OH⁻ form can be available depending on application and user's request.

Physical and Chemical Properties

| | | | |
|------------------------|-----------------------------------|---|------------------|
| Physical Form | Beige translucent spherical beads | Matrix | Styrene-DVB, Gel |
| Functional Group | Type 1 (Trimethylammonium) | Ionic Form | Cl ⁻ |
| Total Capacity(eq/ℓ) | 1.30 ↑ | Moisture Retention(%) | 48~55 |
| Shipping Density(g/ℓ) | 670 | Particle Density | 1.08 |
| Uniformity Coefficient | 1.6 ↓ | Particle Size(mm) | 0.3~1.2 |
| Whole Beads(%) | 90 ↑ | Swelling (Cl ⁻ →OH ⁻ , %) | 24 |

Recommended Operating Conditions

| | | | |
|-----------------------|--------|------------------------|------|
| Operating Temp(°C) | 60 | pH Range | 0~14 |
| Bed Depth(mm) | 1000 | Service Flow Rate(m/h) | 5~50 |
| Regeneration | | | |
| Regenerant | NaOH | Concentration(%) | 2~8 |
| Level(g/ℓ) | 60~200 | Flow Rate(m/h) | 4~10 |
| Rinse Requirement(BV) | 5~10 | | |

Applications

TRILITE® SAR12 has better heat resistant and SiO₂ treatment efficiency, compared with TRILITE® SAR20MB, thus being widely used for various applications including demineralization, metal recovery, and special refinement like sugar solution.

All information contained in brochure is not absolute rather than relative one, created under the controlled environment by Samyang Corporation. Therefore, Samyang Corporation has no legal responsibility with respect to any and all information provided in brochure.

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

Samyang Corporation, 31 Jong-ro 33-gil, Jongno-gu, Seoul, Korea Tel: (02)740-7732~7, Fax: (02)740-7140



<http://samyangtrilite.com>