

**TRILITE® CLR-N**

Chelating Resin for Nitrate Removal

Rev.1 July 2018

TRILITE® CLR-N is a specially developed strong base anion resin for nitrate removal, especially from drinking water. Its special matrix and trimethylamine function group makes it high selective for nitrate, especially in solutions of moderate or high presence of sulfates and other divalent ions.

TRILITE® CLR-N features the high capacity and the physical stability due to the special improvement on the matrix for better resistance to pressure.

**Physical and Chemical Properties**

|                       |               |                       |                             |
|-----------------------|---------------|-----------------------|-----------------------------|
| Physical Form         | Crème spheres | Matrix                | Styrene-DVB,<br>Macroporous |
| Functional Group      | Triethylamine | Ionic Form            | Cl <sup>-</sup>             |
| Total Capacity(eq/ℓ)  | 1.0 ↑         | Moisture Retention(%) | 48~58                       |
| Shipping Density(g/ℓ) | 650 ~750      | Particle Size(μm)     | 300~1,250                   |

**Recommended Operating Conditions**

|                       |   |                         |                                      |
|-----------------------|---|-------------------------|--------------------------------------|
| Operating Temp(°C)    | 100   | Operating PH            | 0~14                                 |
| Bed Depth(mm)         | 800   | Service Flow Rate(BV/h) | 5~60                                 |
| Regeneration          |   |                         |                                      |
| Regenerant            | NaCl, NaHCO <sub>3</sub>                    | Concentration(%)        | NaCl(8~12), NaHCO <sub>3</sub> (2~8) |
| Level(g/ℓ)            | NaCl(50~150),<br>NaHCO <sub>3</sub> (30~80) | Flow Rate(BV/hr)        | 2~8                                  |
| Rinse Requirement(BV) | 2~8   |                         |                                      |

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>