For potable water treatment and water for food processing.
Careful pre-use preparation of processing equipment is critical in the potable water treatment and food processing industries. When Purolite ion exchange resins are to be used for potable water treatment or food processing, they should be subjected to a simple—yet very effective—pre-use treatment by the user. The treatment is intended to supplement normal manufacturing pretreatments.

Transport and storage conditions have an important influence on the condition of food-grade resins. Resins should always be stored indoors and out of direct sunlight. The maximum recommended storage temperature of 104°F (40°C) must not be exceeded, and temperature extremes should be avoided. Please refer to the Purolite’s “Storage & Transportation of Ion Exchange Resins” brochure for more details.

Only when this pre-use treatment is carried out can the ion exchanger be certain to comply with the organic extractives level required by U.S. Code of Federal Regulations, Title 21, Part 173.25, Paragraph (c) (4) or Council of Europe Resolution AP(2004)3, formerly AP(97)1.

**Strong acid cation exchange resins - H+ cycle**

Resins are usually delivered in the Na+ form. Therefore, regenerate with HCl or H₂SO₄, rinse with 5 BV of water, and exhaust with 2 BV of 4% NaOH solution. The NaOH solution can be replaced by a 10% NaCl solution.

**Strong acid cation resins - Na+ cycle**

Exhaust the resin with raw water or with a dilute CaCl₂ solution, rinse and regenerate again with NaCl. Rinse again.

**Weak acid cation exchange resins**

Resins are usually delivered in the H⁺ form. Exhaust with 4 BV of 4% NaOH solution, rinse with 5 BV of water and regenerate with HCl or H₂SO₄. Rinse again.

**Strong base anion exchange resins**

Resins are usually delivered in the salt (exhausted) form. Regenerate with NaOH, rinse and exhaust with 2 BV of 4% HCl or H₂SO₄ solution. The acid solution can be replaced with a NaCl solution. Rinse again.

**Weak base anion exchange resins**

Resins are usually delivered in the free-base form. Exhaust with 2 BV of 5% HCl or H₂SO₄. Rinse and regenerate with NaOH or NH₄OH. Rinse again.

Each of these treatments is repeated two more times before the resins are ready for use. Depending on storage time and conditions, however additional pre-treatment may be required.

**NSF/ANSI 44 & NSF/ANSI 61 certified resins**

Please refer to the WQA website (www.wqa.org) for pre-use directions.

It is strongly recommended that the product water is tested and confirmed to be fully in specification before it is used for direct human consumption or for the intended food treatment.