

Pre Use Directions for Purolite[®] Ion Exchange Resins For Food and Pharmaceutical Products

Good practice in the potable water treatment and in the food processing field requires careful preparation of processing equipment prior to use. When Purolite ion exchangers are to be used for potable water treatment or food processing they should be subjected to a very simple but very effective pre-use treatment by the user, supplementing the normal manufacturing pre-treatments.

Only when this pre-use treatment is carried out can the ion exchanger be certain to comply with the organic extractable levels required by Article 2 of EEC regulation NO.2310/80 or Code of Federal Regulations (USA), Part 21, paragraph 173.25 © (4) or Council of Europe Resolution AP (97) 1.

- **Strong acid cation exchange resin - 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 (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.

- **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.

- **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.

- **Weak base anion exchange resins**

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

Each of these treatments is repeated further two times, after which the resins are ready for use the normal way.



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