

Resin Media-Cation Exchange**Product Coding**
P4301XXXXX**Introduction**

Cation exchange media is a synthetic resin filtration material designed to remove positively charged ions (cations) from water and process liquids through an ion-exchange mechanism.

The media consists of uniform polymer beads functionalized with negatively charged active groups, which attract and exchange undesirable cations such as calcium, magnesium, sodium, iron, manganese, and heavy metals.

As liquid flows through the resin bed, target cations are retained on the resin while benign ions (typically hydrogen or sodium) are released. This process reduces water hardness, controls scaling potential, and produces high purity or conditioned water suitable for industrial and utility applications.

Cation exchange media may be used in single bed systems, combined with anion exchange media in dual bed arrangements, or blended in mixed bed systems for final polishing. The resin is chemically regenerable, allowing repeated service cycles and long operational life.

- Available in industrial grade and specialty formulations
- Compatible with single bed, dual bed, and mixed bed systems

Applications

- Drinking water treatment plants
- Industrial process water
- Cooling tower filters
- Swimming pool filters
- Wastewater polishing systems
- Pre-filtration before RO (reverse osmosis), and cartridge systems

Features

- Effective removal of hardness
- Available in strong acid and weak acid resin types
- High exchange capacity with consistent performance
- Produces softened or demineralized water depending on resin form
- Regenerable using standard chemical regenerants
- Uniform bead size for low pressure drop and stable hydraulics
- High mechanical and chemical stability
- Suitable for continuous or batch operation



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