

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

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

The media is composed of polymer beads containing positively charged functional groups that attract and exchange undesirable anions such as chloride, sulfate, nitrate, bicarbonate, silica, and organic acids. As liquid passes through the resin bed, target anions are retained on the resin while harmless ions (typically hydroxide or chloride) are released. This results in high purity water or controlled chemical composition suitable for industrial, utility, and process applications.

Anion exchange media is commonly used as a single bed system or in combination with cation exchange media in dual bed or mixed bed configurations and can be chemically regenerated for repeated use.

**Features**

- Highly effective removal of dissolved anions
- Available in strong base and weak base resin types
- High exchange capacity and consistent performance
- Capable of removing silica, nitrates, sulfates, and organic acids
- Regenerable for long service life and cost efficiency
- Low pressure drop with uniform bead size distribution
- Chemically and mechanically stable under normal operating conditions
- Compatible with single bed, dual bed, and mixed bed systems
- Suitable for continuous or batch operation
- Available in food and industrial formulations

Applications

- Demineralization and deionization water treatment systems
- Boiler feedwater and cooling water treatment
- Power plant and utility water systems
- Chemical and petrochemical process water purification
- Pharmaceutical and biotechnology water systems
- Food and beverage process water treatment
- Semiconductor and electronics manufacturing
- Wastewater polishing and reuse systems
- Condensate polishing units



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