Resin Media-Mixed Bed Exchange

Product Coding
P430XXXXXX

Introduction

Mixed bed exchange media is a high performance filtration and purification medium consisting of a carefully blended mixture of cation exchange resin and anion exchange resin.

This configuration enables the simultaneous removal of both positively and negatively charged ions, producing high purity water in a single treatment step.

As water flows through the mixed resin bed, cations and anions are continuously exchanged, closely simulating multiple demineralization stages within one unit. The result is very low conductivity and silica levels, making mixed bed systems ideal for final polishing applications.

The resins can be chemically regenerated (in external or internal regeneration systems) or supplied as non-regenerable, replaceable media, depending on system design and operational requirements.

Features

- Simultaneous removal of cations and anions in one filtration step
- Produces high purity water with very low conductivity
- High removal efficiency for silica, sodium, chlorides, and trace ions
- Compact system footprint compared to multi stage demineralization
- Available as regenerable or disposable mixed bed media
- Uniform resin bead distribution for stable hydraulics
- Low pressure drop under normal operating conditions
- Suitable for polishing downstream of RO or demineralization units
- Custom resin ratios to match feedwater quality and purity targets
- Available in industrial and high purity grades

Applications

- Final polishing in deionized water systems
- Boiler feedwater and steam generation units
- Power plants and combined cycle facilities
- Semiconductor and electronics manufacturing
- Pharmaceutical and laboratory water systems
- High purity process water production
- Condensate polishing systems
- Makeup water treatment for critical industrial processes

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