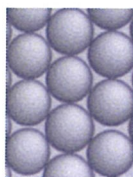


ION EXCHANGE RESINS

Products

DIAION™ ion exchange resins



DIAION™ products are high quality ion exchange resins, chelating resins, and synthetic adsorbents produced by Mitsubishi Chemical Corporation and its subsidiary producers. According to Mitsubishi Chemical's experience in ion exchange resin manufacture of over 70 years, DIAION™ resins are well production-controlled and have excellent properties for various applications.

Types of DIAION™ ion exchange resins

Ion exchange resins are classified as follows based on their chemical structures or functionalities.

Type	Base	Functional group	Matrix
Strongly Acidic Cation Exchange Resin	Styrenic	Sulfonic acid	Gel / Porous / Highly porous
Weakly Acidic Cation Exchange Resin	Acrylic Methacrylic	Acrylic acid Methacrylic acid	Gel / Porous / Highly porous
Strongly Basic Anion Exchange Resin	Styrenic	Quaternary ammonium (Type I and Type II)	Gel / Porous / Highly porous
Weakly Basic Anion Exchange Resin	Styrenic Acrylic	Tertiary amine Polyamine	Porous / Highly porous
Chelating Resin	-	Special ligands	Highly porous

Types of DIAION™ ion exchange resins

GEL type ion exchange resins are most commonly used and have homogeneous matrix structure inside the beads. This type of matrix gives so-called micropores that are formed by the polymeric networks. Water and solute species diffuse into and out from the bead through the micropores.

Porous resins have rather large pores as well as micropores. The large pores (macropores) give improved diffusion of solutes inside beads.

Highly Porous resins have more enhanced macroporosity. Resins of this type can be used for processing of large molecules or can be used in non-aqueous media.

Types of DIAION™ ion exchange resins

Typical applications of ion exchange resins are as follows:

- Industrial Water Treatment
- Power Generation
- Ultrapure Water
- Waste Water and Recovery
- Chemical Catalyst
- Sugar and Sweeteners
- Food and Beverage
- Pharmaceutical

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