

Resinex™ MX-1 I

Mixed bed ion exchange resin

Resinex™ MX-1 I is a ready-to-use regenerable mixed bed resin specially designed for the production of fully demineralised water. The product is made up of a 1:1 volumetric ratio of **Resinex™ K-8** and **Resinex™ A-4** to offer a very low conductivity in the outlet during operation. The high operating capacity offers an economic advantage and the type 1 functional group in the anionic compound guarantees a high purity, silica free water.

Resinex™ MX-1 I is equipped with a colour indicator - turns from amber to red - to provide the exhaustion level of the resin.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	gel-type, amber, spherical beads
Functional group	Sulfonic acid/Quaternary ammonium, Type 1
Whole bead count	95% min.
Ionic form, as shipped	H ⁺ /OH ⁻
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	740 kg/m ³
Water retention	45 - 55%
Operating capacity	Cation: 0.85 eq/l, Anion: 0.45 eq/l min.
Volume change regenerated -> exhausted	15% max.
Stability, pH	0 - 14

Key Features and Benefits

- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures low pressure drop
- **High Operating Capacity**
Economical advantage
- **Low Conductivity Leakage**
Offers conductivity leakage <0.1 µS/cm and it is usable for all standard mixed bed applications.
- **Colour indicator**

Typical Applications

- Polishing after demineralisation
- Demineralisation in laboratories
- Mixed bed cartridges

Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag

Standard Design Conditions

Bed depth	> 600 mm
Service flow rate	8 - 40 BV/h



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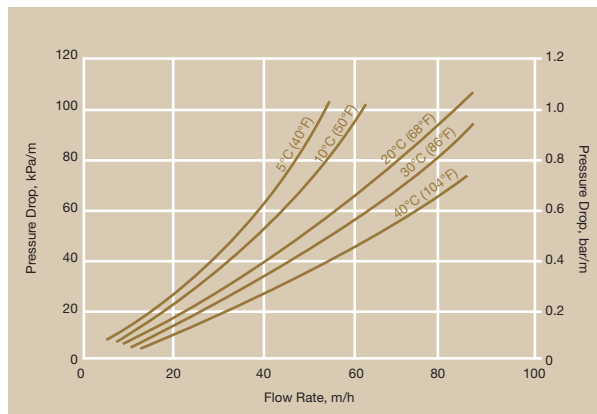
Resinex™

Ion Exchange Resin

Resinex™ MX-1 I

Mixed bed ion exchange resin

Pressure Drop



Product Packing



25 lit. polyethylene valve bag
48 bags per pallet



Polypropylene FIBCs
(big bag), 1.000 lit.



NOTICE Jacobi Carbons reserves the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for the customers use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

CAUTION Strong oxidizing agents such as nitric acid can react violently with ion exchange resins and cause explosive type reactions. Before using strong oxidants, consult sources knowledgeable in the handling of these materials.



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