Resinex™ MX-21 is a ready-to-use mixed bed resin specially designed for the production of fully demineralised water, e.g. circulating water in EDM applications. The product is made up of a 1:1.5 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.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Crosslinked polystyrene divinylbenzene</td>
</tr>
<tr>
<td>Form</td>
<td>gel-type, amber, spherical beads</td>
</tr>
<tr>
<td>Functional group</td>
<td>Sulfonic acid/Quaternary ammonium, Type 1</td>
</tr>
<tr>
<td>Whole bead count</td>
<td>96% min.</td>
</tr>
<tr>
<td>Ionic form, as shipped</td>
<td>H⁺/OH</td>
</tr>
<tr>
<td>Bead size</td>
<td>0.42 - 1.25 mm</td>
</tr>
<tr>
<td>Uniformity coefficient</td>
<td>1.60 max.</td>
</tr>
<tr>
<td>Bulk density, as shipped</td>
<td>740 kg/m³</td>
</tr>
<tr>
<td>Water retention</td>
<td></td>
</tr>
<tr>
<td>Operating capacity</td>
<td>Cation: 0.85 eq/l, Anion: 0.55 eq/l min.</td>
</tr>
<tr>
<td>Volume change regenerated -&gt; exhausted</td>
<td>15% max.</td>
</tr>
<tr>
<td>Stability, pH</td>
<td>0 - 14</td>
</tr>
</tbody>
</table>

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.

Typical Applications

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

Standard Design Conditions

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

Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag
Resinex™ MX-21
Mixed bed ion exchange resin

Pressure Drop

![Pressure Drop Graph]

NOTICE
Due to the progressive nature of the Jacobi Carbons Group and the continually improving design and performance of our products, we reserve the right to change product specifications without prior notice. This information contained in the attached document is intended to assist in 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 customer's needs and applications. Jacobi Carbons assumes no obligation or liability for the use of the information in this document or any information, expressed or implied, provided by Jacobi Carbons. The customer accepts 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.

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FBCs (big bag), 1000 lit.

Lenntech
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