ResinTech SBACR-MP is a chloride form acrylic macroporous strong base anion resin. SBACR-MP has an aliphatic chemical structure and allows organic ions to move in and out of the resin easily. ResinTech SBACR-MP is intended for use in the chloride form as an organic trap when the highest possible removal of naturally occurring organics is needed. SBACR-MP is supplied in the chloride form.

FEATURES & BENEFITS

- **HIGH CAPACITY FOR ORGANICS**
  Macroporous acrylic structure provides the highest possible capacity for organics when operated in the chloride cycle

- **EXCELLENT REGENERATION EFFICIENCY**
  Superior kinetics and low chloride selectivity yields high regeneration efficiency

- **SUPERIOR PHYSICAL STABILITY**
  95% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop

- **CONTROLLED PARTICLE SIZE**
  16 to 50 mesh size provides a low pressure drop and superior kinetics

- **COMPLIES WITH US FDA REGULATIONS**
  Conforms to paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA*  

Prior to first use for potable water, resin should be backwashed for a minimum of 20 minutes, followed by 10 bed volumes of downflow rinse.

HYDRAULIC PROPERTIES

**PRESSURE LOSS**
The graph above shows the expected pressure loss of ResinTech SBACR-MP per foot of bed depth as a function of flow rate at various temperatures.

**BACKWASH**
The graph above shows the expansion characteristics of ResinTech SBACR-MP as a function of flow rate at various temperatures.
**ResinTech® SBACR-MP**

**Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer Structure</td>
<td>Acrylic/DVB</td>
</tr>
<tr>
<td>Polymer Type</td>
<td>Macroporous</td>
</tr>
<tr>
<td>Functional Group</td>
<td>Quaternary Amine</td>
</tr>
<tr>
<td>Physical Form</td>
<td>Spherical beads</td>
</tr>
<tr>
<td>Ionic Form as shipped</td>
<td>Chloride</td>
</tr>
<tr>
<td>Total Capacity Chloride form</td>
<td>&gt;0.8 meq/mL</td>
</tr>
<tr>
<td>Water Retention Chloride form</td>
<td>63 to 72 percent</td>
</tr>
<tr>
<td>Approximate Shipping Weight Chloride form</td>
<td>44 lbs./cu.ft.</td>
</tr>
<tr>
<td>Screen Size Distribution (U.S. mesh)</td>
<td>16 to 50</td>
</tr>
<tr>
<td>Maximum Fines Content (&lt;50 mesh)</td>
<td>1 percent</td>
</tr>
<tr>
<td>Minimum Sphericity</td>
<td>93 percent</td>
</tr>
<tr>
<td>Uniformity Coefficient</td>
<td>1.7 approx.</td>
</tr>
<tr>
<td>Resin Color</td>
<td>White to Cream</td>
</tr>
</tbody>
</table>

Note: Physical properties can be certified on a per lot basis, available upon request.

**Suggested Operating Conditions**

- **Maximum continuous temperature Chloride form**: 150°F
- **Minimum bed depth**: 24 inches
- **Backwash expansion**: 25 to 50 percent
- **Maximum pressure loss**: 20 psi
- **Operating pH range**: 0 to 14 SU
- **Regenerant Concentration**: 2 to 10 percent NaCl
- **Salt cycle**: 4 to 10 lbs./cu.ft.
- **Regenerant flow rate**: 0.25 to 1.0 gpm/cu.ft.
- **Regenerant contact time**: >60 minutes
- **Displacement flow rate**: Same as dilution water
- **Displacement volume**: 10 to 15 gallons/cu.ft.
- **Rinse flow rate**: Same as service flow
- **Rinse volume**: 35 to 60 gallons/cu.ft.
- **Service flow rate**: 1 to 4 gpm/cu.ft.
- **Average Flow**: <10 gpm/cu.ft.

**Applications**

**Organic Trap**

*ResinTech SBACR-MP* has the highest possible capacity for tannins and other naturally occurring organic matter (NOM) due to its acrylic polymer backbone and macroporous physical structure. Tannins and similar naturally occurring organics cause most of the color in potable waters. SBACR-MP removes these substances and is easily regenerated with sodium chloride, in the same fashion as a water softener. Organic trap resins should be regenerated frequently to prevent the NOM from building up inside the resin beads and eventually causing fouling. For industrial applications it is sometimes useful to add a little caustic to the brine in order to increase capacity and reduce leakage. Use of chloride form anion resin reduces the pH of the product water during the early part of the exhaustion cycle.

**Capacity based on 2 gpm/cu.ft. flow rate, pH near neutral, and 36 inch minimum bed depth. Capacity is for TOC plus sulfate. No engineering downgrade has been applied.**

**SBACR-MP TOC Leakage**

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums.

For operation outside these guidelines, contact ResinTech Technical Support.

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