

# PRODUCT SPECIFICATION SHEET

## MAGNA SBACR

STRONG BASE ANION

ACRYLIC GEL  
CHLORIDE FORM

ResinTech SBACR is an acrylic gel strong base anion resin in chloride form. The polymer has an open aliphatic structure which allows organic anions to exchange in and out of the resin more easily than anion resins based on a polystyrene polymer structure. SBACR is intended for use for the removal of NOM (naturally occurring organic matter).

### APPLICATIONS

- Organic Removal - Municipal
- Color Removal - Municipal

### TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Polymer Matrix</b>         | Acrylic Gel                                 |
| <b>Ionic Form</b>             | Chloride                                    |
| <b>Functional Group</b>       | Quaternary Amine                            |
| <b>Physical Form</b>          | Spherical Beads                             |
| <b>Particle Size</b>          | 16 to 50 US Mesh (297 - 1190 µm)            |
| <b>% &lt; 50 mesh (300µm)</b> | < 1%                                        |
| <b>Minimum Sphericity</b>     | 93%                                         |
| <b>Uniformity Coefficient</b> | 1.7                                         |
| <b>Reversible Swelling</b>    | Cl to OH 12% to 15%                         |
| <b>Temp Limit</b>             | 150°F (66°C)                                |
| <b>Capacity (meq/mL)</b>      | 1.25                                        |
| <b>Moisture Retention</b>     | 55% to 63%                                  |
| <b>Shipping Weight</b>        | 43 - 45 lbs/ft <sup>3</sup> (689 - 721 g/L) |
| <b>Color</b>                  | White to Cream                              |
| <b>Regenerability</b>         | Yes                                         |

### CERTIFICATIONS

- Kosher Certified

### PACKAGING OPTIONS

- 500 ml samples
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

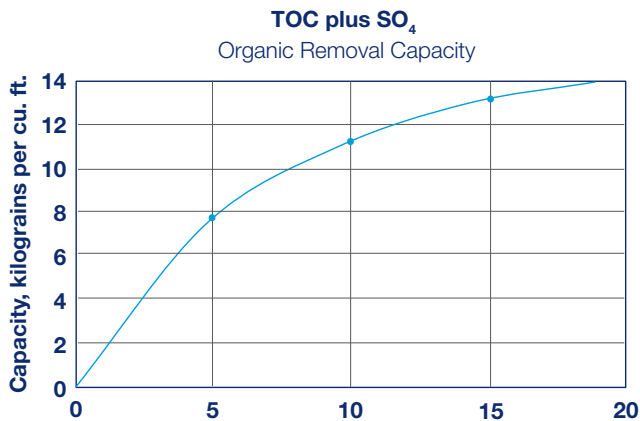
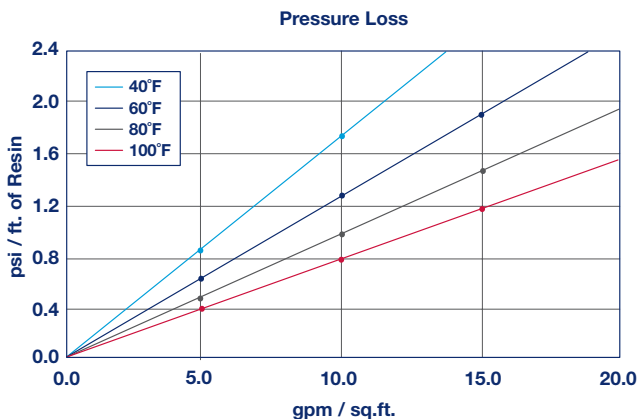
Revision 1.0  
© 2020 ResinTech, Inc.



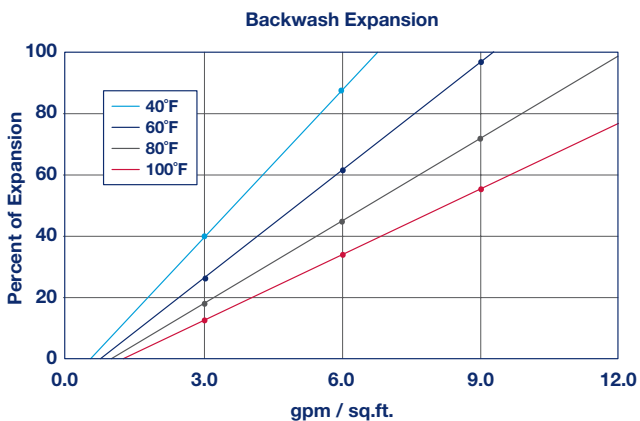
# MAGNA SBACR

STRONG BASE ANION

ACRYLIC GEL  
CHLORIDE FORM



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.



## ORGANIC TRAP

ResinTech SBACR has excellent capacity for tannins and other naturally occurring organic matter (NOM) which cause most of the color in potable waters. SBACR 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.

## SUGGESTED OPERATING CONDITIONS

|                                |                         |
|--------------------------------|-------------------------|
| Maximum continuous temperature | 150°F                   |
| Chloride form                  |                         |
| 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       |                         |
| Hydroxide cycle                | 2 to 6 percent NaOH     |
| Salt cycle                     | 2 to 10 percent NaCl    |
| Regenerant level               | 4 to 15 lbs./cu.ft.     |
| Regenerant flow rate           | 0.5 to 1.5 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              |                         |
| Average Flow                   | 1 to 4 gpm/cu.ft.       |
| Peak Flow                      | <10 gpm/cu.ft.          |

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

Revision 1.0

© 2020 ResinTech, Inc.

