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	
Polymer Matrix	Acrylic Gel
Ionic Form	Chloride
Functional Group	Quaternary Amine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.7
Reversible Swelling	Cl to OH 12% to 15%
Temp Limit	150°F (66°C)
Capacity (meq/mL)	1.25
Moisture Retention	55% to 63%
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)
Color	White to Cream
Regenerability	Yes

CERTIFICATIONS

- Halal Certified
- Kosher Certified

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

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RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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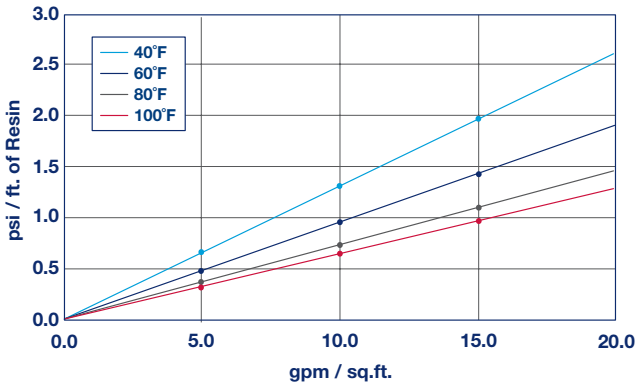
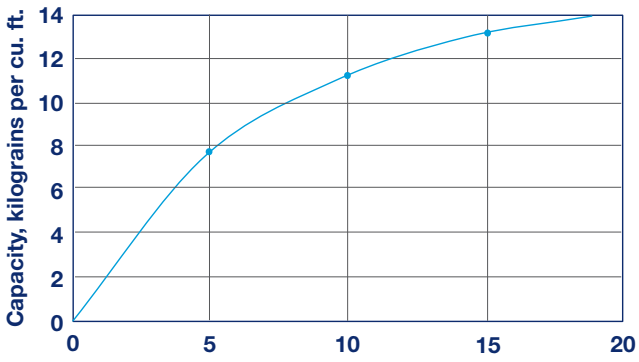
Pressure Loss



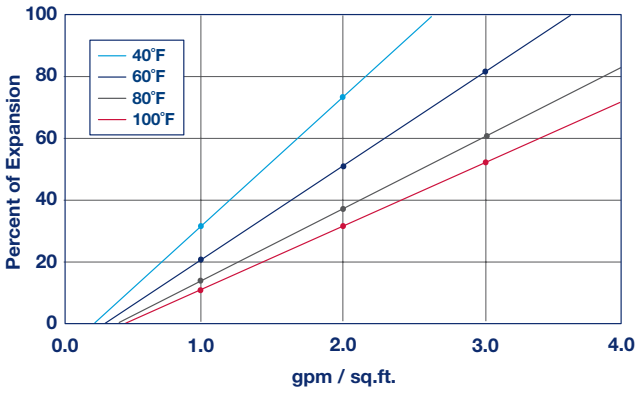
TOC plus SO_4

Organic Removal Capacity



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.

Backwash Expansion



ORGANIC TRAP

ResinTech SBACR has excellent capacity for tannins and other naturally occuring 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	
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	
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

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