PRODUCT SPECIFICATION SHEET

MAGNA

SBG1-C

STRONG BASE ANION

COARSE MESH
TYPE I ANION
POLYSTYRENIC GEL
CHLORIDE FORM

ResinTech SBG1-C is a coarse grade chloride form type 1 gel strong base anion resin. It has similar physical and chemical properties as other resins in the SBG1 family. SBG1-C is intended for use in industrial applications where minimizing pressure loss is essential even when suspended solids may be present.

APPLICATIONS

- Polishing - High Flow Rate
- Mining Applications

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Chloride
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Particle Size	16 to 30 US Mesh (595 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.3
Reversible Swelling	Cl to OH 18% to 25%
Temp Limit	170°F (77°C)
Capacity (meq/mL)	1.4
Moisture Retention	42% to 51%
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)
Color	White to Yellow
Regenerability	Yes

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

Revision 1.0
ResinTech, Inc.®

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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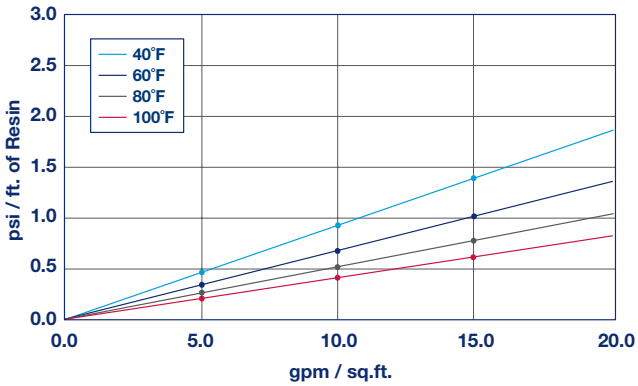
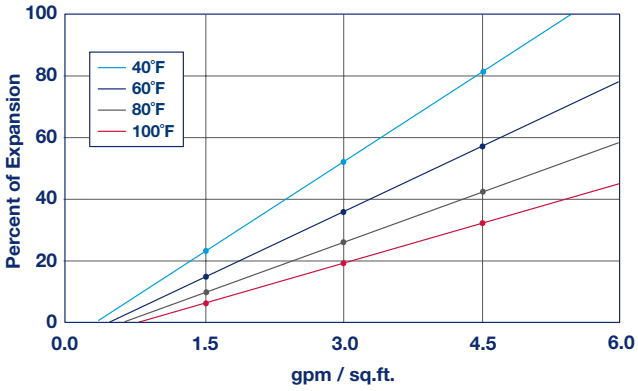
Pressure Loss



Backwash Expansion



HIGH FLOW RATE USE

ResinTech SBG1-C is made with a large bead size which increases the void spaces between the beads and reduces the surface area, thus reducing the resistance to water flow through the resin bed. Because the resin bed has lower pressure loss the resin can operate at high flow rates. High flow rates are useful in polishing applications where a large resin volume is not needed to provide a long throughput between regenerations. It should be understood that the rate of exchange is somewhat slower due to the large bead size and that SBG1-C is intended for polishing rather than bulk ion removal.

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature Chloride form	170˚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 Salt cycle	2 to 10 percent NaCl
Regenerant level	4 to 15 lbs./cu.ft.
Regenerant flow rate	0.25 to 1.0 gpm/cu.ft.
Regenerant contact time	>40 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 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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