

# 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

<b>Polymer Matrix</b>	Styrenic Gel
<b>Ionic Form</b>	Chloride
<b>Fuctional Group</b>	Trimethylamine
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	16 to 30 US Mesh (595 - 1190 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 1%
<b>Minimum Sphericity</b>	93%
<b>Uniformity Coefficient</b>	1.3
<b>Reversible Swelling</b>	Cl to OH 18% to 25%
<b>Temp Limit</b>	170°F (77°C)
<b>Capacity (meq/mL)</b>	1.4
<b>Moisture Retention</b>	42% to 51%
<b>Shipping Weight</b>	43 - 45 lbs/ft <sup>3</sup> (689 - 721 g/L)
<b>Color</b>	White to Yellow
<b>Regenerability</b>	Yes

### PACKAGING OPTIONS

- 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

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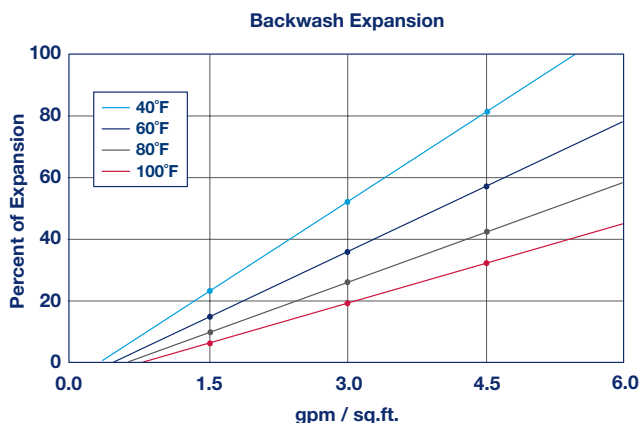
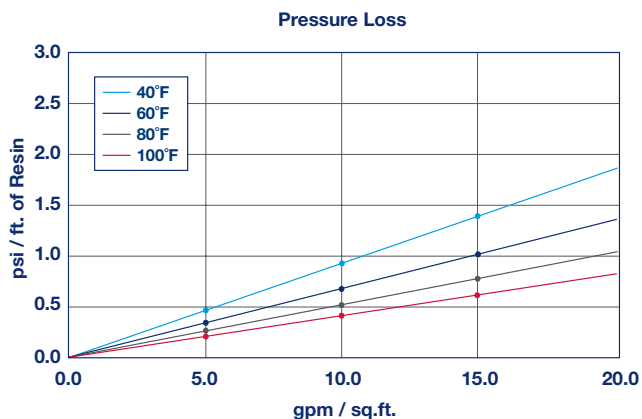


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### HIGH FLOW RATE USE

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	170°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	
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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