

# PRODUCT SPECIFICATION SHEET

## MAGNA SBG1P

STRONG BASE ANION

TYPE I ANION  
POLYSTYRENIC POROUS GEL  
CHLORIDE FORM

ResinTech SBG1P is a type 1 porous gel strong base anion resin in chloride form. Its higher moisture content and lower ion exchange density result in better chemical efficiency and improved resistance to fouling. SBG1P is intended for use in industrial applications where the resin is regenerated and reused over and over again and can be regenerated into the hydroxide form and used in various demineralizer configurations.

### APPLICATIONS

- Demineralization

### TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

<b>Polymer Matrix</b>	Styrenic Porous Gel
<b>Ionic Form</b>	Chloride
<b>Functional Group</b>	Trimethylamine
<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>	1.6
<b>Reversible Swelling</b>	Cl to OH 18% to 22%
<b>Temp Limit</b>	170°F (77°C)
<b>Capacity (meq/mL)</b>	1.3
<b>Moisture Retention</b>	51% to 60%
<b>Shipping Weight</b>	42 - 44 lbs/ft <sup>3</sup> (673 - 705 g/L)
<b>Color</b>	White to Yellow
<b>Regenerability</b>	Yes

### CERTIFICATIONS

- WQA Gold Seal
- Halal Certified
- 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

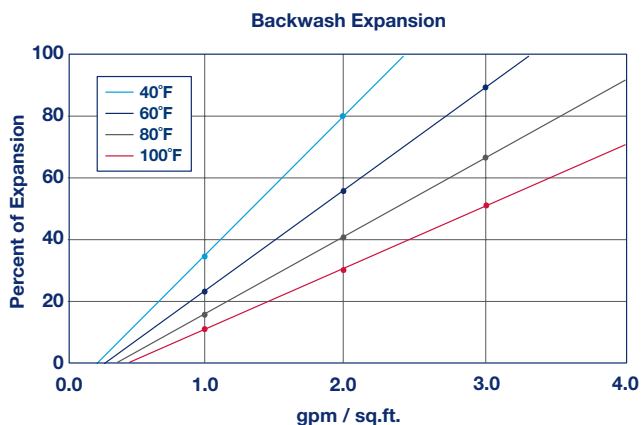
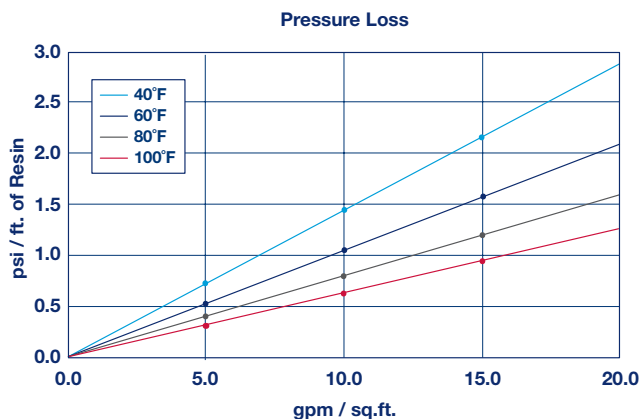
Revision 1.0  
ResinTech, Inc.®



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### 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	
Hydroxide cycle	2 to 6 percent NaOH
Salt cycle	2 to 10 percent NaCl
Regenerant level	4 to 10 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