

# 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

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

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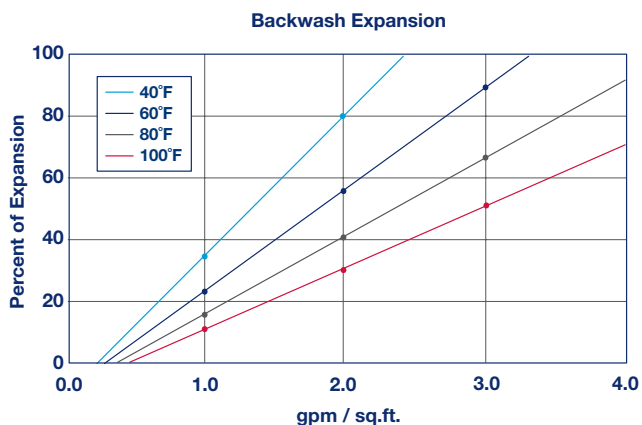
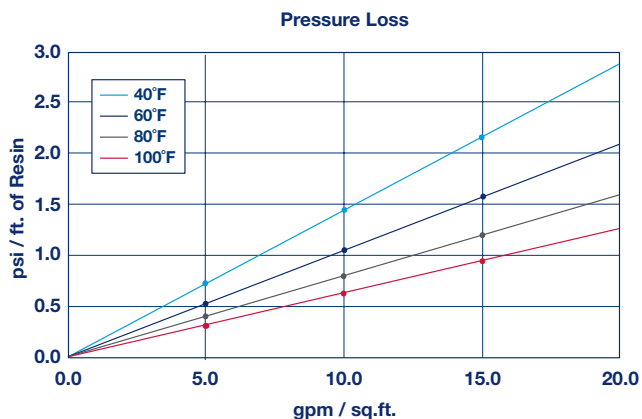


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**CHLORIDE FORM**



### 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

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