

MAGNA

SBG1-F

STRONG BASE ANION

**FINE MESH
TYPE I ANION
POLYSTYRENIC GEL
CHLORIDE FORM**

ResinTech SBG1-F is a fine mesh type 1 strong base anion gel resin in chloride form. It has similar chemical and physical properties as other resins in the SBG1 family. Its fine mesh size yields faster kinetics and improved regeneration efficiency compared to larger bead resins. SBG1-F is intended for industrial applications where resin bed depth is less than ideal and for applications that challenge the kinetic limits of larger size resins.

APPLICATIONS

- Chemical Purification

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Chloride
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Particle Size	30 to 50 US Mesh (297 - 595 µm)
% < 50 mesh (300µm)	< 5%
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/ft ³ (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.®



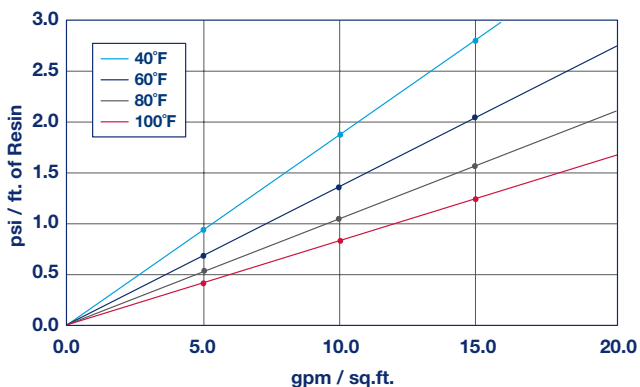
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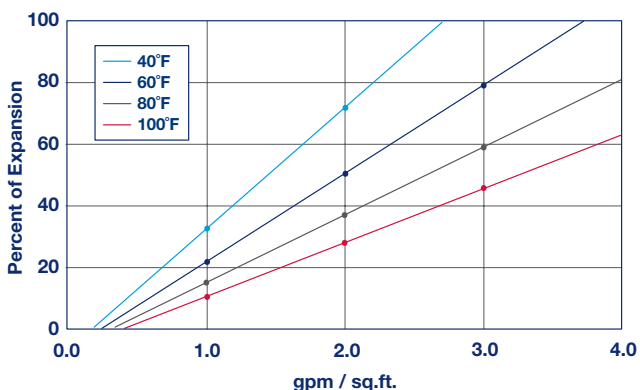
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Pressure Loss



Backwash Expansion



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 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