PRODUCT SPECIFICATION SHEET



TYPE I ANION
POLYSTYRENIC GEL
CHLORIDE FORM

ResinTech SBG1 is a type 1 high solids gel strong base anion resin in chloride form. It has high cross-linkage and higher ion exchange capacity than other strong base anion resins resulting in especially high selectivity for various anions. SBG1 is intended for the removal of contaminants such as nitrate, arsenate, chromate, uranium, etc.

APPLICATIONS

- Demineralization
- Trace Contaminants (U, Cr, As, Se, F, ClO₄, ClO₃)
- Nitrate Removal
- Sulfate Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Chloride
Fuctional Group	Trimethylamine C.
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 +190 μm)
% < 50 mesh (300μm)	L7% NCAL
Physical Form Particle Size % < 50 mesh (300µm) Minimum Sphericity Uniformity Coefficient Reversible Swelling Temp Limit Capacity (meg/ml.)	神色儿
Uniformity Coefficient	1.6
Reversible Swelling	CI 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

CERTIFICATIONS

- WQA Gold Seal
- Halal Certified
- Kosher Certified

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

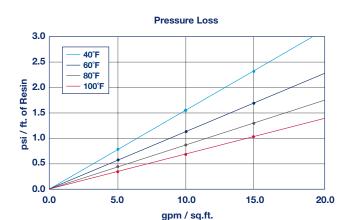




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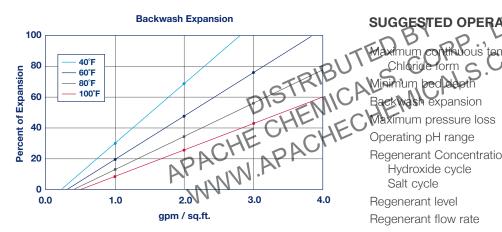


TYPE I ANION POLYSTYRENIC GEL CHLORIDE FORM



NITRATE REMOVAL

ResinTech SBG1 can be used in the chloride cycle to reduce nitrates along with sulfates. Regeneration is accomplished with sodium chloride brine, in a fashion similar to water softeners. Although high operating capacities and high salt efficiency can be obtained, there is also the possibility of nitrate dumping. Use of chloride form anion resin reduces pH during the early portion of the exhaustion cycle. When treating waters with high hardness the brine dilution and displacement waters should be softened and a low hardness salt used to prevent scaling during regeneration.



SUGGESTED OPERATING CONDITIONS

170°F 24 inches 25 to 50 percent 20 psi 0 to 14 SU

Regenerant Concentration 2 to 6 percent NaOH 2 to 10 percent NaCl 4 to 10 lbs./cu.ft. Regenerant flow rate 0.25 to 1.0 gpm/cu.ft. >40 minutes Regenerant contact time Displacement flow rate Same as dilution water Displacement volume 10 to 15 gallons/cu.ft. Same as service flow Rinse flow rate Rinse volume 35 to 60 gallons/cu.ft. 1 to 10 gpm/cu.ft. Service flow rate

TRACE CONTAMINANT REMOVAL (U, CR, AS, SE, CLO₄)

ResinTech SBG1 has high capacity and can be used to remove a variety of trace contaminants, even when that contaminant is not highly preferred compared to the other bulk ions in the feedwater. Useful capacities are obtained when the feedwater TDS is substantially less than the resin's internal TDS. Uranium, chromate, and perchlorate are particularly well removed. Arsenate and selenate are well removed but can be chromatographically displaced by sulfate and other ions.

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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