PRODUCT SPECIFICATION SHEET



TYPE II ANION
POLYSTYRENIC GEL
CHLORIDE FORM

ResinTech SBG2-UPS is a unifrom particle size type 2 strong base anion gel resin in chloride form. The uniform beads and somewhat smaller harmonic mean size yield minimal pressure loss and better regeneration efficiency compared to resins with Gaussian size distribution. SBG2-UPS is intended for use in industrial applications that require a type 2 strong base anion resin and is recommended for countercurrently regenerated systems such as packed beds.

APPLICATIONS

- Dealkalizer
- 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 |
| Functional Group | Dimethylethanolamine |
| Physical Form | Spherical Beads |
| Particle Size | 20 to 40 US Mesh (400 - 841 μm) |
| % < 50 mesh (300μm) | < 0.5% minus 50 |
| Minimum Sphericity | 95% |
| Uniformity Coefficient | 1.25 |
| Reversible Swelling | CI to OH 12% to 15% |
| Temp Limit | 170°F (77°C) |
| Capacity (meq/mL) | 1.4 |
| Moisture Retention | 40% to 53% |
| Shipping Weight | 43 - 45 lbs/ft³ (689 - 721 g/L) |
| Color | White to Yellow |
| Regenerability | Yes |
| Uniform Particle Size | Yes |

PACKAGING OPTIONS

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

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STRONG BASE ANION

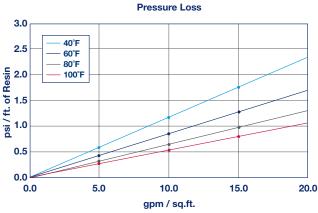
UNIFORM PARTICLE SIZE TYPE II ANION POLYSTYRENIC GEL CHLORIDE FORM

170°F

20 psi

24 inches

0 to 14 SU



SUGGESTED OPERATING CONDITIONS

sulfate precipitation during regeneration.

ResinTech SBG2-UPS can be used in the chloride cycle

obtained, there is also the possibility of nitrate dumping.

product water during the early part of the exhaustion cycle. When treating waters with high hardness the brine dilution

Use of chloride form anion resin reduces the pH of the

and displacement waters should be softened and a low

hardness salt used to prevent scaling due to calcium

to reduce nitrates along with sulfates. Although high

operating capacities and high salt efficiency can be

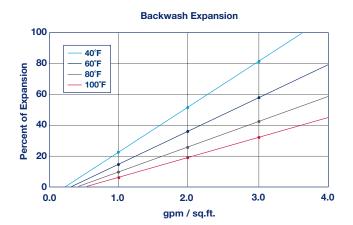
NITRATE REMOVAL



2 to 10 percent NaCl 4 to 10 lbs./cu.ft. 0.25 to 1.0 gpm/cu.ft. Regenerant flow rate >40 minutes Regenerant contact time 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



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

ResinTech SBG2-UPS has high capacity in the chloride form 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 feed 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.

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