# SBG1P-HP

Grade: High Purity

## Strong base type 1 anion resin, styrene/DVB gel, chloride form

ResinTech SBG1P-HP is a high purity type 1 gel strong base anion resin in chloride form. The 'HP' designation means it is Gold Seal Certified by the WQA for use in potable water applications. Chemically and physically similar to other resins in the SBG1P family, SBG1P-HP is intended to remove contaminants such as nitrate, arsenate, chromate, uranium, and other salt form applications that require potable water certification.

### FEATURES & BENEFITS

- High operating capacity
- Organic fouling resistance
- Superior physical stability
- Complies with US FDA regulations

### APPLICATIONS

- Dealkalizer
- Demineralization / DI
- Trace Contaminant Removal

### PHYSICAL PROPERTIES

| | |
|---|---|
| Polymer Matrix | Styrene/DVB |
| Polymer Type | Gel |
| Ionic Form (as shipped) | Chloride ($Cl^-$) |
| Functional Group | Trimethylamine |
| Physical Form | Spherical Beads |
| Uniformity Coefficient | 1.60 |
| Particle Size | 20-50 US mesh (297-841µm) |
| < 50 mesh (300 µm) % | < 1% |
| Minimum Sphericity (%) | 93 |
| Reversible Swelling | 52 to 58% (Cl → OH) |
| Capacity (meq/mL) | 1.30 |
| Moisture Retention (%) | 52 to 58 |
| Shipping Weight | 42 - 44 lbs/cu.ft. (673 - 705 g/L) |
| Color | White to Yellow |

### SUGGESTED OPERATING CONDITIONS

| | |
|---|---|
| Maximum Temperature | 170°F (77°C) |
| Maximum Pressure Loss | 20 psi (138 kPa) |
| Backwash Expansion (%) | 25 - 50 |
| Operating pH Range | 5.8 to 7.5 |
| Flow Rate | |
| Working Service | 1-10 gpm/cu.ft. (8-80 BV/h) |

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations



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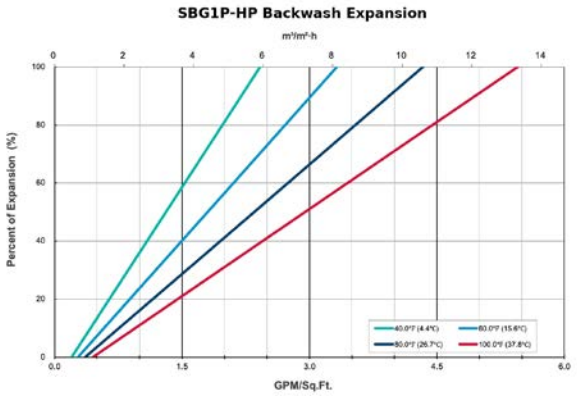
## REGENERATION DETAILS

| | | | |
|---|---|---|---|
| Salt Cycle (NaCl) | 2% - 10% | Displacement Volume | 10-15 gals/cu.ft. (1-2 BV) |
| Displacement Flow Rate | Same as dilution water | | |

## PRESSURE LOSS

The graph above shows the expected pressure loss of ResinTech SBG1P-HP per foot of bed depth as a function of flow rate at various temperatures.

## BACKWASH EXPANSION




The graph above shows the expansion characteristics of ResinTech SBG1P-HP as a function of flow rate at various temperatures.

## CERTIFICATIONS

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

## PACKAGING

### *Standard*

42 cu.ft. Supersack | 7 cu.ft. Drum
200L Drum | 1000L Supersack

### *Metric*

1 cu.ft. Bag | 5 cu.ft. Drum
25L Bag | 140L Drum

### *Shipping Weight*

42 - 44 lbs/cu.ft. (673 - 705 g/L)

## MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com



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