

# SBG1P-UC1

**Strong base type 1 anion resin, porous styrene/DVB gel, highly uniform particle size, chloride form**

ResinTech SBG1P-UC1 is a highly uniform particle size, 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-UC1 is intended for use in regenerable industrial applications. It can be reused over and over again and can be regenerated into the hydroxide form and used in various demineralizer configurations.



## FEATURES & BENEFITS

- Highly uniform particle size
- High operating capacity
- Organic fouling resistance
- Superior physical stability

## APPLICATIONS

- Dealkalizer
- Demineralization / DI
- Trace Contaminant Removal



C US

Meets NSF/ANSI/CAN 61  
REACH Registered

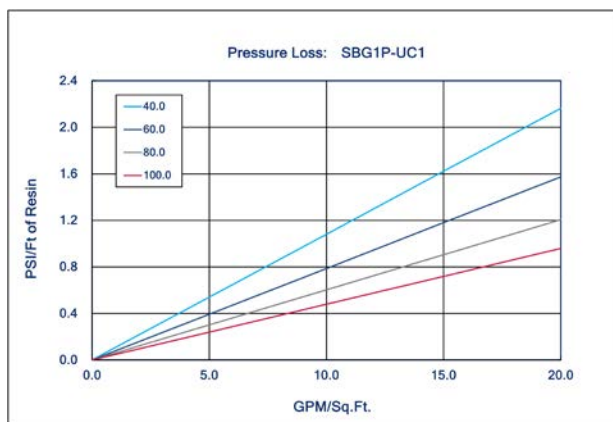
Kosher Certified  
Halal Certified

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

SBG1P-UC1

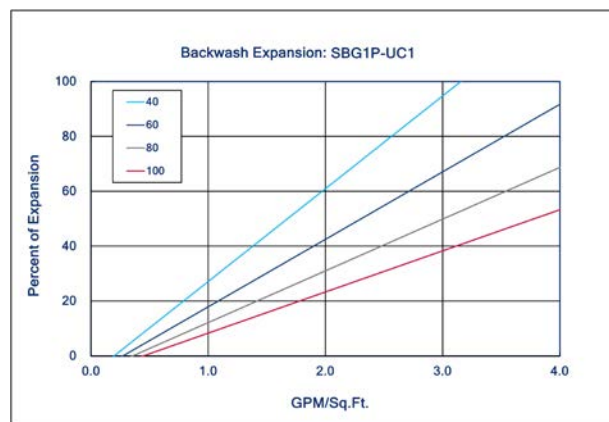
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Porous	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Chloride (Cl <sup>-</sup> )	Uniformity	UC1
Functional Group	Trimethylamine	Uniformity Coefficient	1.10
Physical Form	Spherical Beads	Capacity (meq/mL)	1.30
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Moisture Retention (%)	52 to 58
< 50 mesh (300 µm) %	<0.5%	Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)
		Color	White To Amber

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech SBG1P-UC1 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-UC1 as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	170°F (77°C)	Operating pH Range	0 to 14
Maximum Pressure Loss	20 psi (138 kPa)	Flow Rate	
Backwash Expansion (%)	25 - 50	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)



**PACKED BEDS**

ResinTech **SBG1P-UC1** has a very narrow particle size range. The uniformity allows for a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration, and lower leakage. **SBG1P-UC1** is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cycle. Higher void space and minimal fine mesh beads provide low pressure loss and help prevent channeling and other distribution problems. Packed beds typically have limited freeboard (only a few inches with the resin in the swollen form).

**LAYERED BEDS**

ResinTech **SBG1P-UC1** has a very narrow particle size range. The uniformity and absence of very small beads makes **SBG1P-UC1** ideal for layered beds where it is important that the two resin layers stay separate from each other. For layered bed applications **SBG1P-UC1** should be paired with WBMP-UPS. The strong base layer is usually about 70% of the total bed volume. Layered beds are normally countercurrently regenerated.

**DEMINERALIZATION**

See ResinTech **SBG1P-OH-UC1**.

**REGENERATION DETAILS**

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

**PACKAGING**

**Standard**

42 cu.ft. Supersack | 7 cu.ft. Drum  
 1 cu.ft. Bag | 5 cu.ft. Drum

**Metric**

25L Bag | 140L Drum



**SAFETY DATA SHEETS (SDS)**

Safety Data Sheets (SDS) 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](https://www.resintech.com)

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