

SBG1-UC1

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

ResinTech SBG1-UC1 is a type 1 gel strong base anion resin in chloride form for condensate polishing and industrial demineralization. The highly uniform beads and somewhat smaller harmonic mean size yield minimal pressure loss and better regeneration efficiency compared to resins with Gaussian size distribution. SBG1-UC1 is intended for use in industrial applications that require a high solids strong base anion resin and is recommended for countercurrently regenerated systems such as packed beds.



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

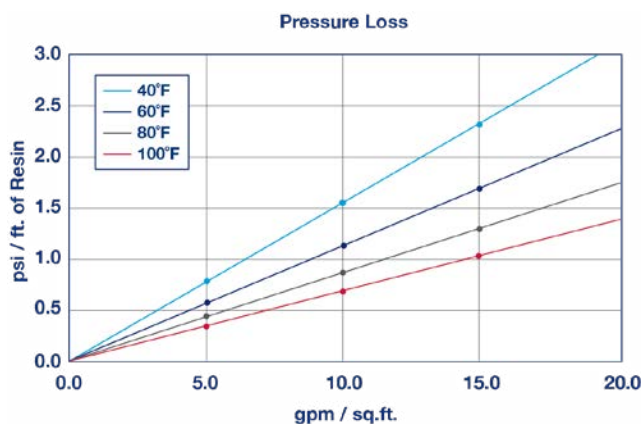
Kosher Certified
Halal Certified

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

SBG1-UC1

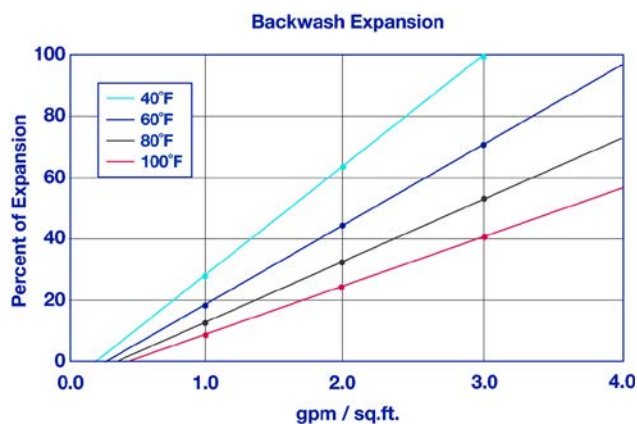
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Gel	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Chloride (Cl ⁻)	Uniformity	UC1
Functional Group	Trimethylamine	Uniformity Coefficient	1.10
Physical Form	Spherical Beads	Capacity (meq/mL)	1.40
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Moisture Retention (%)	42 to 51
< 50 mesh (300 µm) %	< 0.5%	Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
		Color	White To Amber

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech SBG1-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 SBG1-UC1 as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

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



PACKED BEDS

ResinTech **SBG1-UC1** has a very narrow particle size range. The uniformity allows a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration and lower leakage. **SBG1-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 provides low pressure loss and helps prevent channeling and other distribution problems. Packed beds typically have limited freeboard (only a few inches with the resin in the swollen form).

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

