

SBG1P-UPS

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

ResinTech SBG1P-UPS is a uniform particle size, type 1 porous gel strong base anion resin in the chloride form. Its higher moisture content and lower ion exchange density result in better chemical efficiency and improved resistance to fouling. SBG1P-UPS is intended for use in industrial applications where the resin is regenerated and reused over and over again and can be regenerated into the hydroxide form and used in various demineralizer configurations.



FEATURES & BENEFITS

- Uniform particle size
- Organic fouling resistance
- Superior physical stability

APPLICATIONS

- Dealkalizer
- Demineralization / DI
- Trace Contaminant Removal



C US

Meets NSF/ANSI/CAN 61
Meets NSF/ANSI/CAN 372
REACH Registered

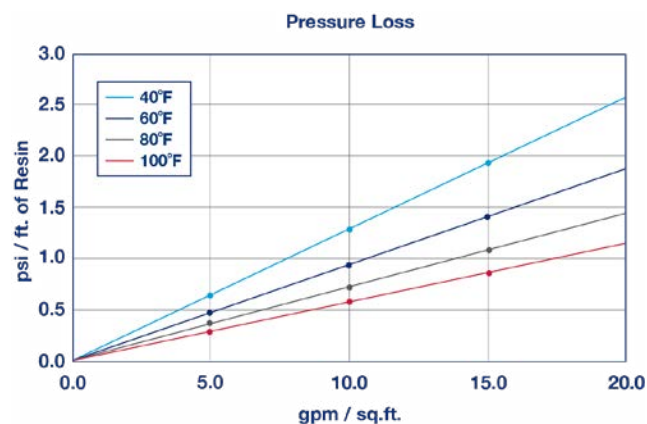
Kosher Certified
Halal Certified

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

SBG1P-UPS

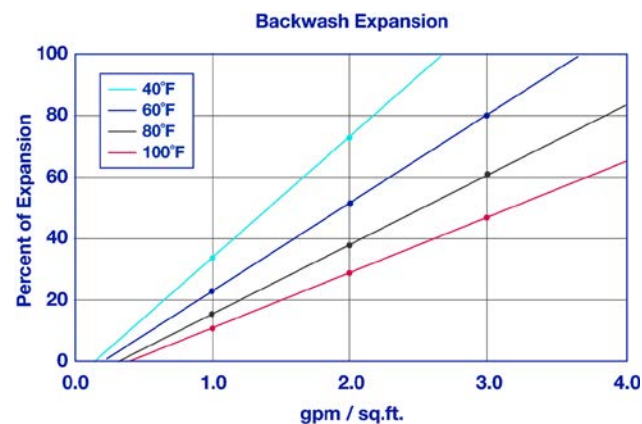
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Porous	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Chloride (Cl ⁻)	Uniformity	UPS
Functional Group	Trimethylamine	Uniformity Coefficient	1.25
Physical Form	Spherical Beads	Capacity (meq/mL)	1.30
Particle Size US Mesh (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-UPS 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-UPS 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-UPS** has a very narrow particle size range. The uniformity allow for a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration, and lower leakage. **SBG1P-UPS** is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cycles. 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-UPS** has a very narrow particle size range. The uniformity and absence of very small beads makes **SBG1P-UPS** ideal for layered beds where it is important that the two resin layers stay separate from each other. For layered bed applications **SBG1P-UPS** 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-UPS**.

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)

Page 4 of 4

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