SBG1-F

Grade: Standard

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

ResinTech SBG1-F is a fine mesh type 1 strong base anion gel resin in chloride form. It has similar chemical and physical properties as other resins in the SBG1 family. Its fine mesh size yields faster kinetics and improved regeneration efficiency compared to larger bead resins. SBG1-F is intended for industrial applications where resin bed depth is less than ideal and for applications that challenge the kinetic limits of larger size resins.

FEATURES & BENEFITS

- High total capacity for long run lengths
- Lower TOC leach rate
- Superior physical stability
- Controlled particle size
- Low pressure drop & better kinetics
- Complies with US FDA regulations

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	30-50 US mesh (297-595µm)
< 50 mesh (300 µm) %	< 5%
< 70 mesh (210 µm) %	< 2%
Minimum Sphericity (%)	93
Reversible Swelling	18 to 25% (Cl → OH)
Capacity (meq/mL)	1.40
Moisture Retention (%)	42 to 51
Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Color	White To Amber

SUGGESTED OPERATING CONDITIONS

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

REACH COMPLIANCE

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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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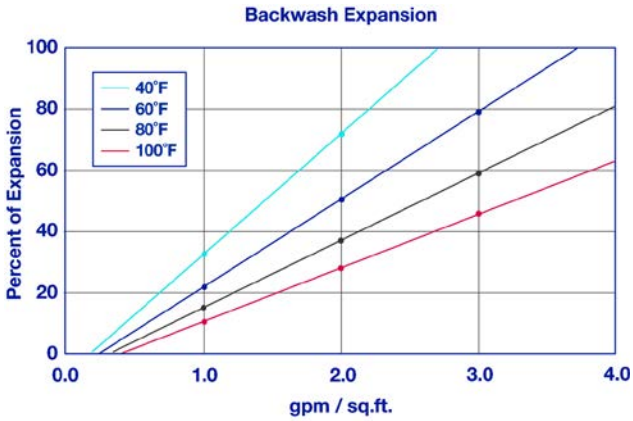
REGENERATION DETAILS

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

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBG1-F as a function of flow rate at various temperatures.

CERTIFICATIONS

REACH Registered

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

43 - 45 lbs/cu.ft. (689 - 721 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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