SBG1-HCO3

Grade: Standard

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

ResinTech SBG1-HCO3 is a bicarbonate form type 1 gel strong base anion resin. SBG1-HCO3 is intended for use in salt form strong base anion applications where an initial pH drop is undesirable or where release of chlorides is objectionable. ResinTech SBG1-HCO3 is supplied in the bicarbonate form.

FEATURES & BENEFITS

- Supplied in the bicarbonate form
- High total capacity
- Superior physical stability
- Controlled particle size

APPLICATIONS

- pH Correction of Acidic Waters
- Acid Adsorption
- Trace Contaminant Removal
- Sulfate Removal
- Chloride Removal

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Bicarbonate (HCO_{-3})
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Reversible Swelling	42 to 51% (HCO3 → 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
Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

REGENERATION DETAILS

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

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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

TRACE CONTAMINANT REMOVAL (U, Cr, As, Se, ClO4)
ResinTech **SBG1-HCO3** has high capacity and can be used to remove a variety of trace contaminants, even when that contaminant is not highly preferred compared to the other bulk ions in the feedwater. Useful capacities are obtained when the feedwater TDS is substantially less than the resins internal TDS. Uranium, chromate, and perchlorate are particularly well removed. Arsenate and selenate are well removed but can be chromatographically displaced by sulfate and other ions. Use of bicarbonate form resin helps prevent a pH drop caused by the dealkalization properties of the resin when provided in the chloride form.

CERTIFICATIONS

Meets NSF/ANSI/CAN 61
Meets NSF/ANSI/CAN 372
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)

Minimum Order Volume: 210 (cu.ft.)

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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