# SBG1F-OH-SC

Grade: Semiconductor

**Strong base type 1 anion resin, porous styrene/DVB gel, semiconductor grade, hydroxide form**

ResinTech SBG1-OH-SC is a fine mesh type 1 strong base anion gel resin in hydroxide 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-OH-SC 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
- Low TOC leach rate
- Superior physical stability
- Fine mesh particle size
- Fast kinetics
- Complies with us fda regulations

## PHYSICAL PROPERTIES

| | |
|---|---|
| Polymer Matrix | Styrene/DVB |
| Polymer Type | Gel |
| Ionic Form (as shipped) | Hydroxide ($OH^-$) |
| 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 | 18 to 25% (Cl → OH) |
| Capacity (meq/mL) | 1.20 |
| Shipping Weight | 42 - 44 lbs/cu.ft. (673 - 705 g/L) |
| Color | White To Amber |

## SUGGESTED OPERATING CONDITIONS

| | |
|---|---|
| Maximum Temperature | 140°F (60°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) |

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



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## REGENERATION DETAILS

| | | | |
|---|---|---|---|
| Hydroxide Cycle (NaOH) | 2 to 6% | Displacement Volume | 10-15 gals/cu.ft. (1-2 BV) |
| Displacement Flow Rate | Same as dilution water | | |

## 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*

42 - 44 lbs/cu.ft. (673 - 705 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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