

## SBG1-OH

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

ResinTech SBG1-OH is a high solids type 1 gel strong base anion resin in the hydroxide form. It has high crosslinkage and higher ion exchange capacity than other strong base anion resins resulting in especially high selectivity for various anions. SBG1-OH is intended for use in industrial applications where a hydroxide form anion resin is required, for mixed beds, high operating temperatures, and low TDS polishing such as RO permeate.



#### FEATURES & BENEFITS

- High total capacity for long run lengths
- Superior physical stability
- Controlled particle size
- Low pressure drop
- Better kinetics
- Complies with us fda regulations

#### APPLICATIONS

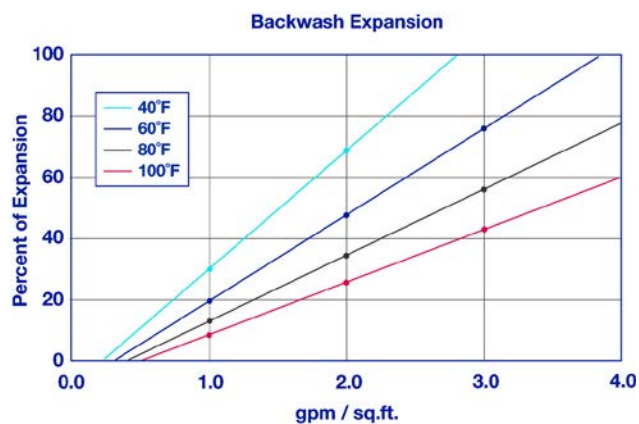
- High Purity DI Water
- Demineralization / DI
- Mixed Bed Components
- Silica Removal

REACH Registered

SBG1-OH

Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	93
Polymer Type	Gel	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Hydroxide (OH <sup>-</sup> )	Uniformity	Gaussian
Functional Group	Trimethylamine	Uniformity Coefficient	1.60
Physical Form	Spherical Beads	Capacity (meq/mL)	1.20
Particle Size US Mesh (μm)	16 (1190) to 50 (297)	Moisture Retention (%)	52 to 60
< 50 mesh (300 μm) %	< 1	Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 g/L)
		Color	Yellow to Orange

**BACKWASH EXPANSION**



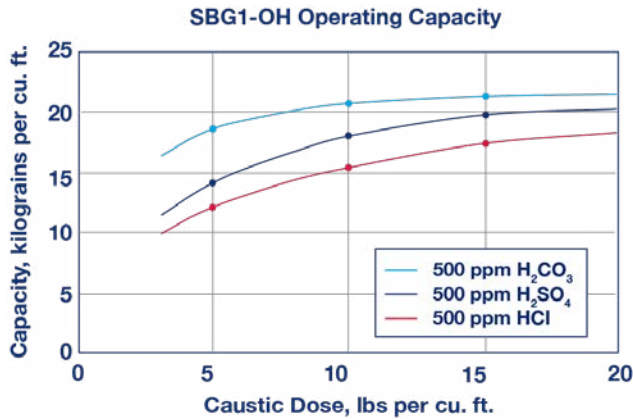
The graph above shows the expansion characteristics of ResinTech SBG1-OH as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	140°F (60°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		



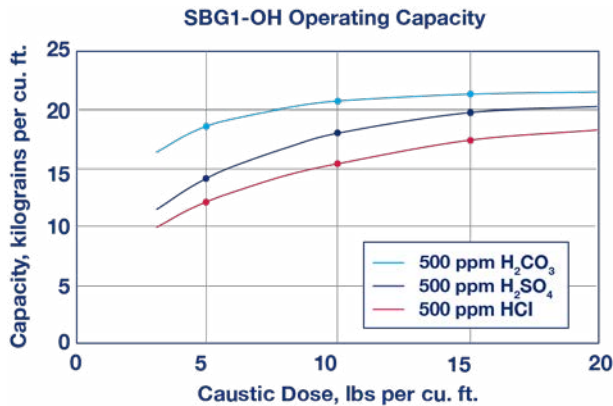
CAPACITY GRAPH 1



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

DEMINERALIZATION

ResinTech **SBG1-OH** can be used as the anion component in a variety of demineralization applications where a hydroxide form anion resin is coupled with a hydrogen form cation resin. SBG1-OH is suitable for high operating temperatures and for high flow rates encountered in polishing condensate and other low TDS waters such as RO permeate. SBG1-OH provides low TOC and low silica leakage in ultrapure demineralizers.



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		



**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://resintech.com)

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