

# MAGNA

## SBG2-OH

STRONG BASE ANION

TYPE II ANION  
 STYRENIC GEL  
 HYDROXIDE FORM

ResinTech SBG2-OH is a type 2 gel strong base anion resin in hydroxide form. SBG2-OH has lower selectivities and therefore higher chemical efficiency and better resistance to fouling than type 1 anion resins. Their thermal sensitivity can result in reduced life when operating temperatures exceed 85 F. SBG2-OH is intended for industrial demineralization applications where regeneration efficiency is important and operating temperatures are not excessive.

**APPLICATIONS**

- Demineralization

**TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS**

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Polymer Matrix</b>         | Styrenic Gel                                |
| <b>Ionic Form</b>             | Hydroxide                                   |
| <b>Functional Group</b>       | Dimethylethanolamine                        |
| <b>Physical Form</b>          | Spherical Beads                             |
| <b>Particle Size</b>          | 16 to 50 US Mesh (297 - 1190 µm)            |
| <b>% &lt; 50 mesh (300µm)</b> | < 1%                                        |
| <b>Minimum Sphericity</b>     | 93%                                         |
| <b>Uniformity Coefficient</b> | 1.6                                         |
| <b>Reversible Swelling</b>    | OH to Cl -8% to -12%                        |
| <b>Capacity (meq/mL)</b>      | 1.05                                        |
| <b>Shipping Weight</b>        | 43 - 45 lbs/ft <sup>3</sup> (689 - 721 g/L) |
| <b>Color</b>                  | Orange to Dark Red                          |
| <b>Regenerability</b>         | Yes                                         |

**PACKAGING OPTIONS**

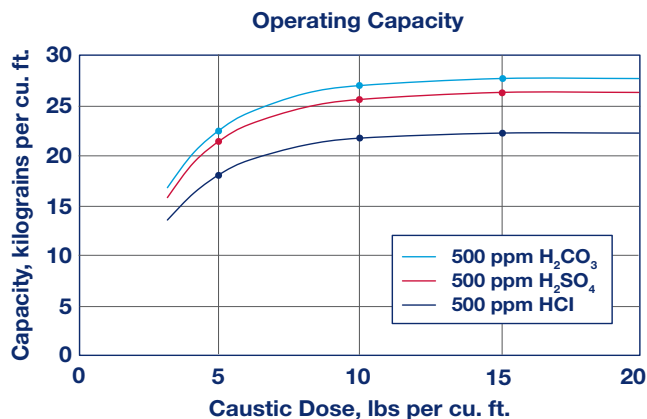
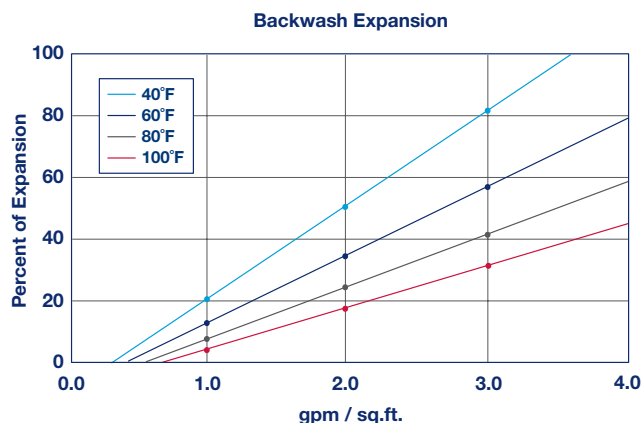
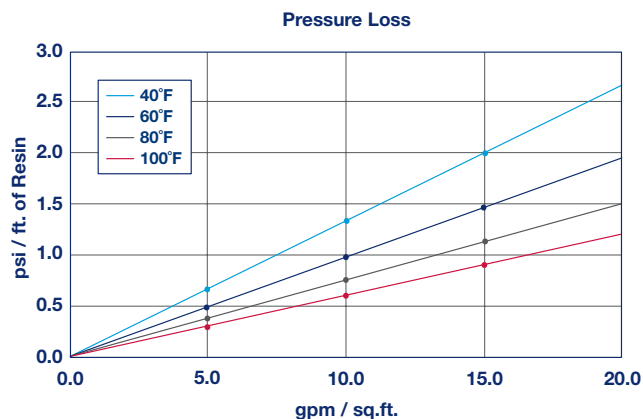
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

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Capacity based on 500 ppm of stated acid (as CaCO<sub>3</sub>). Capacity based on 36 inch deep bed depth, flow rate of 2 to 4 gpm per cu. ft. and greater than 40 minute caustic injection time. No engineering downgrade has been applied.

### SUGGESTED OPERATING CONDITIONS

|                                |                         |
|--------------------------------|-------------------------|
| Maximum continuous temperature |                         |
| Hydroxide form                 | 95°F                    |
| Minimum bed depth              | 24 inches               |
| Backwash expansion             | 25 to 50 percent        |
| Maximum pressure loss          | 20 psi                  |
| Operating pH range             | 0 to 14 SU              |
| Regenerant Concentration       |                         |
| Hydroxide cycle                | 2 to 6 percent NaOH     |
| Salt cycle                     | 2 to 10 percent NaCl    |
| Regenerant level               | 4 to 10 lbs./cu.ft.     |
| Regenerant flow rate           | 0.25 to 1.0 gpm/cu.ft.  |
| Regenerant contact time        | >40 minutes             |
| Displacement flow rate         | Same as dilution water  |
| Displacement volume            | 10 to 15 gallons/cu.ft. |
| Rinse flow rate                | Same as service flow    |
| Rinse volume                   | 35 to 60 gallons/cu.ft. |
| Service flow rate              | 1 to 10 gpm/cu.ft.      |

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums. For operation outside these guidelines, contact ResinTech Technical Support

### DEMINERALIZATION

ResinTech SBG2-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. SBG2-OH is more efficiently regenerated than type 1 resins such as SBG1-OH and often has higher operating capacity. SBG2-OH has less objectionable odor than typically associated with type 1 anion resins.

**LENNTECH**  
WATER TREATMENT SOLUTIONS

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ResinTech, Inc.®

**RESINTECH INC.**  
INNOVATIONS IN ION EXCHANGE