

## 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>	41 - 43 lbs/ft <sup>3</sup> (657 - 689 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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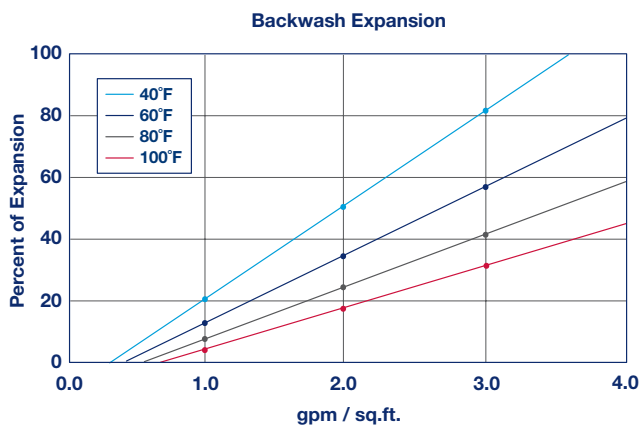
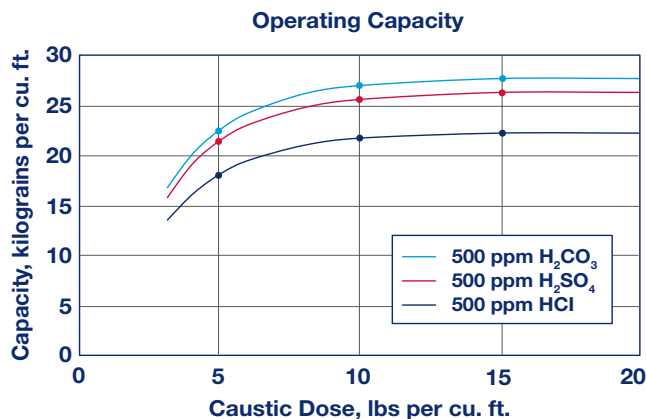
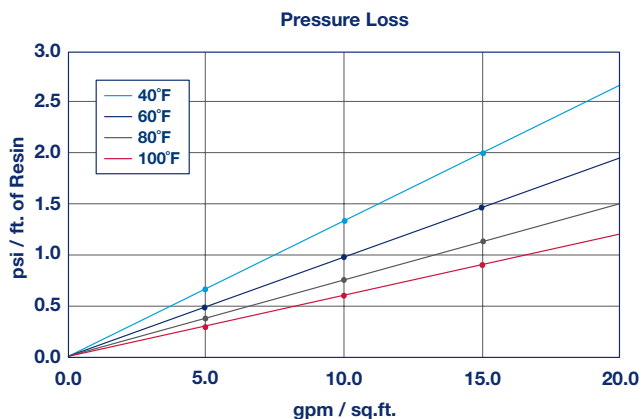


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Capacity based on 500 ppm of stated acid (as CaCO<sub>3</sub>). Capacity based on 36 inch deep bed depth, flow rate of 2 to 4 gpm per cu. ft. and greater than 40 minute caustic injection time. No engineering downgrade has been applied.

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	95°F
Hydroxide form	
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

### DEMINEALIZATION

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.

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