

## MAGNA SBG1-OH-CP

STRONG BASE ANION

CONDENSATE POLISHING GRADE  
TYPE I ANION  
POLYSTYRENIC GEL  
HYDROXIDE FORM

ResinTech SBG1-OH-CP is a polisher grade type 1 gel strong base anion resin in hydroxide form. It offers high capacity and resistance to both thermal and chemical oxidation. It is a uniform particle size resin optimized for minimal pressure loss and perfect separation from “CP” grade cation resins. SBG1-OH-CP is ideally suited for high flow rate, deep bed condensate polishing applications when paired with either CG10-H-CP or SACMP-H-CP.

### APPLICATIONS

- Condensate Polishing
- Anion Component in Mixed Beds

### TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

<b>Polymer Matrix</b>	Styrenic Gel
<b>Ionic Form</b>	Hydroxide
<b>Functional Group</b>	Trimethylamine
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	20 to 40 US Mesh (400 - 841 μm)
<b>% &lt; 50 mesh (300μm)</b>	< 0.5%
<b>Minimum Sphericity</b>	95%
<b>Uniformity Coefficient</b>	1.2
<b>Reversible Swelling</b>	OH to Cl -18% to -25%
<b>Temp Limit</b>	140°F (60°C) Limited life at elevated temperature of 212 deg°F (100 deg°C)
<b>Capacity (meq/mL)</b>	1.05
<b>Moisture Retention</b>	52% to 60%
<b>Shipping Weight</b>	41 - 43 lbs/ft <sup>3</sup> (657 - 689 g/L)
<b>Color</b>	Yellow to Orange
<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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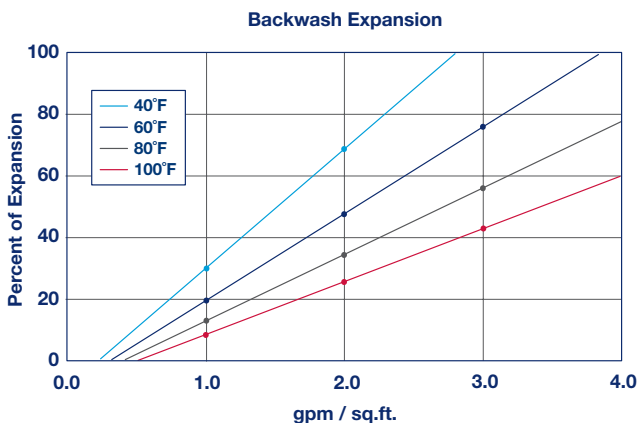
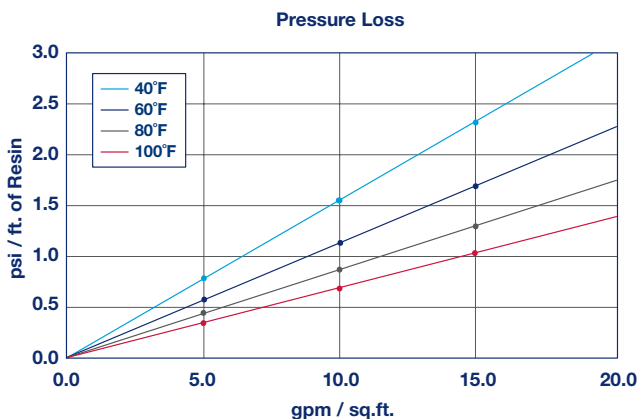


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### CONDENSATE POLISHING

SBG1-OH-CP is ideally suited for high pressure condensate polishing applications. It has very high capacity and provides long service life when treating condensates that contain traces of CO<sub>2</sub> and other anionic contaminants. SBG1-OH-CP has narrowly graded particle size to provide low pressure loss and help improve separation from CP grade cation resins.

### MAXIMUM IMPURITIES

#### Anionic impurities

Equivalent percent Chloride (% Cl)	< 1.5
Equivalent percent Sulfate (% SO <sub>4</sub> )	< 1.5
Equivalent percent Hydroxide (% OH)	> 95

#### Crush strength

Average, grams per bead	> 350
Percent greater than 200 grams	> 95

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
Maximum intermittent temperature	180°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
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	2 to 15 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

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