PRODUCT SPECIFICATION SHEET

MAGNA

SBG1-OH

STRONG BASE ANION

TYPE I ANION
POLYSTYRENIC GEL
HYDROXIDE FORM

ResinTech SBG1-OH is a high solids type 1 gel strong base anion resin in hydroxide form. It has high cross-linkage 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.

APPLICATIONS

- Demineralization
- Anion Component in Mixed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Hydroxide
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.2
Reversible Swelling	OH to Cl -18% to -25%
Temp Limit	140°F (60°C)
Capacity (meq/mL)	1.2
Moisture Retention	52% to 60%
Shipping Weight	41 - 43 lbs/ft³ (657 - 689 g/L)
Color	Yellow to Orange
Regenerability	Yes
Uniform Particle Size	Yes

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

Revision 1.0
ResinTech, Inc.®

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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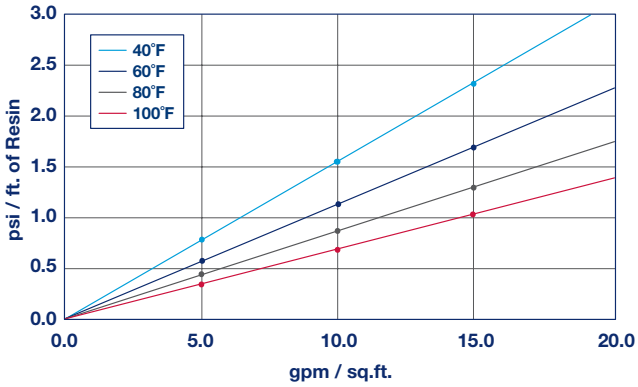
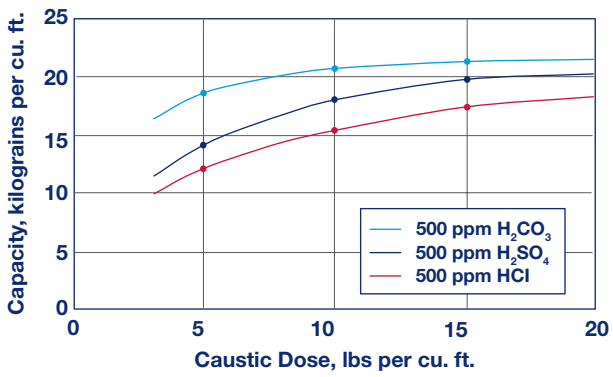
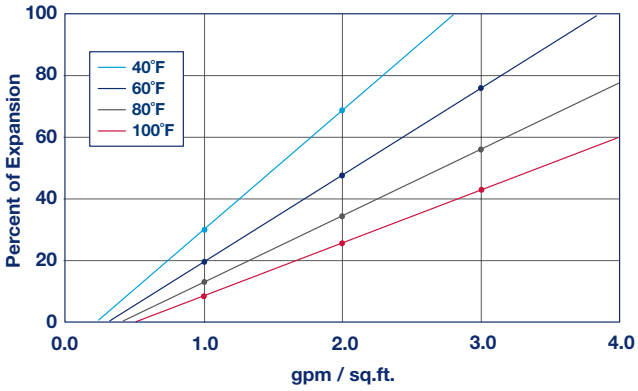
Pressure Loss



Operating Capacity



Backwash Expansion



SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Hydroxide form	140˚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

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