MAGNA

SBG1P-OH

STRONG BASE ANION

TYPE I ANION
POLYSTYRENIC POROUS GEL
HYDROXIDE FORM

ResinTech SBG1P-OH is a hydroxide form type 1 porous gel strong base anion resin. Its higher moisture content and lower ion exchange density result in higher operating capacity, greater efficiency, and improved resistance to fouling. It can follow a water softener to remove silica and other anions but is especially well suited for use in all types of deionizing systems, particularly mixed beds.

APPLICATIONS

• Demineralization
• Anion Component in Mixed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

Polymer Matrix	Styrenic Porous 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	1.6
Reversible Swelling	OH to Cl -20% to -28%
Temp Limit	140°F (60°C)
Capacity (meq/mL)	1.05
Moisture Retention	52% to 60%
Shipping Weight	41 - 43 lbs/ft³ (657 - 689 g/L)
Color	Yellow to Orange
Regenerability	Yes

PACKAGING OPTIONS

• 1 ft³ bags
• 1 ft³ boxes

• 1 ft³ drums
• 7 ft³ drums
• 42 ft³ supersacks

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

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Pressure Loss

Backwash Expansion
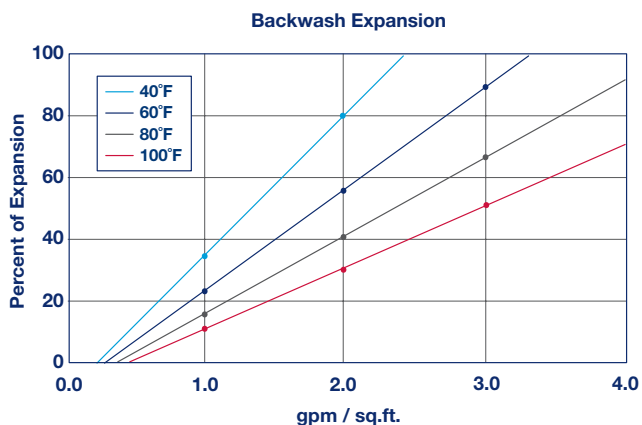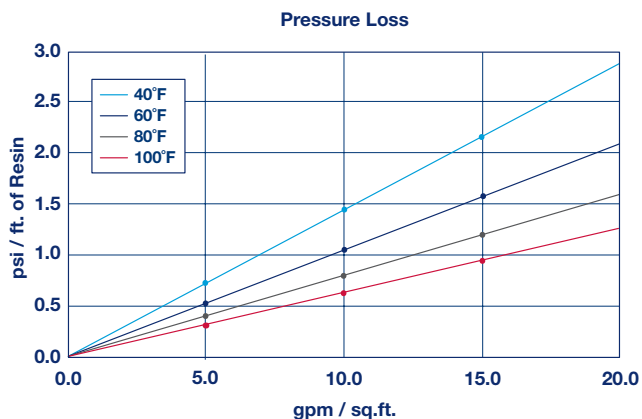
SUGGESTED OPERATING CONDITIONS

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

Revision 1.1
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