SBG1P-OH

Grade: Standard

Strong base type 1 anion resin, styrene/DVB gel, hydroxide form

ResinTech SBG1P-OH is a type 1 gel strong base anion resin in hydroxide form. SBG1P-OH is intended for use in industrial demineralizing applications such as two beds and mixed beds where a resin that has been tested to confirm high resistivity and low TOC is required.

FEATURES & BENEFITS

- High operating capacity
- Organic fouling resistance
- Superior physical stability
- Complies with us fda regulations

APPLICATIONS

- High Purity DI Water
- Demineralization / DI
- Mixed Bed Components
- Silica Removal

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Hydroxide (OH^-)
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1
Minimum Sphericity (%)	93
Reversible Swelling	20 to 28% (Cl → OH)
Capacity (meq/mL)	1.00
Moisture Retention (%)	52 to 60
Shipping Weight	40 - 42 lbs/cu.ft. (641 - 673 g/L)
Color	Yellow to Orange

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 - 50
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

REGENERATION DETAILS

Hydroxide Cycle (NaOH)	2 to 6%
Displacement Flow Rate	Same as dilution water
Displacement Volume	10-15 gals/cu.ft. (1-2 BV)

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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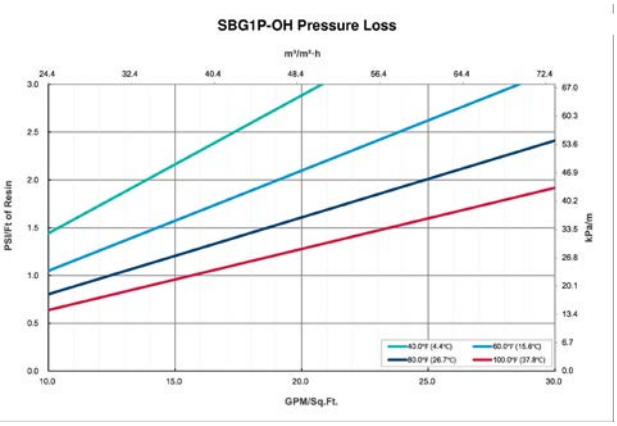
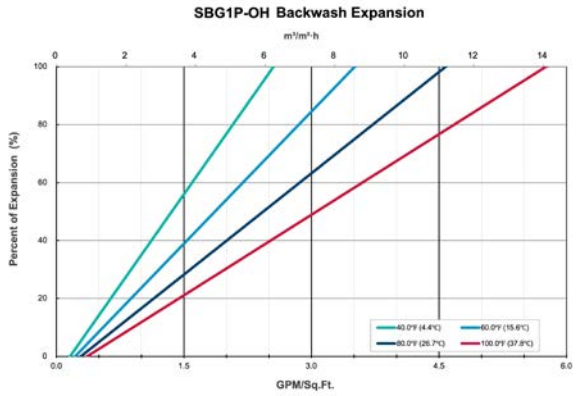
PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech SBG1P-OH per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBG1P-OH as a function of flow rate at various temperatures.

DEMINERALIZATION

ResinTech SBG1P-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. Common configurations include separate beds, mixed beds and other more complicated arrangements. Regeneration is accomplished with dilute sodium hydroxide, heated when low silica leakage is desired.

DESILICIZER

ResinTech SBG1P-OH can be used following a water softener as a desilicizer to remove silica along with other anions. Regeneration is accomplished with sodium hydroxide. Feedwater must be softened to prevent hardness scaling of the resin. This process removes all bulk anions and replaces them with hydroxides, increasing both the pH and alkalinity. This limits the applicability to waters with low or modest TDS.

PACKAGING

Standard

42 cu.ft. Supersack | 7 cu.ft. Drum
200L Drum | 1000L Supersack

Metric

1 cu.ft. Bag | 5 cu.ft. Drum
25L Bag | 140L Drum

Shipping Weight

40 - 42 lbs/cu.ft. (641 - 673 g/L)

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MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

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