SBG1-OH

Grade: Standard

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

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

FEATURES & BENEFITS

- High total capacity for long run lengths
- Superior physical stability
- Controlled particle size
- Low pressure drop
- Better kinetics
- Complies with us fda regulations

APPLICATIONS

- High Purity DI Water
- Demineralization / DI
- Mixed Bed Components
- Silica Removal
- Amine Solutions
- Condensate
- Gas
- Neutral Water
- Plating Rinse Water

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	18 to 25% (Cl → OH)
Capacity (meq/mL)	1.20
Moisture Retention (%)	52 to 60
Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 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)

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

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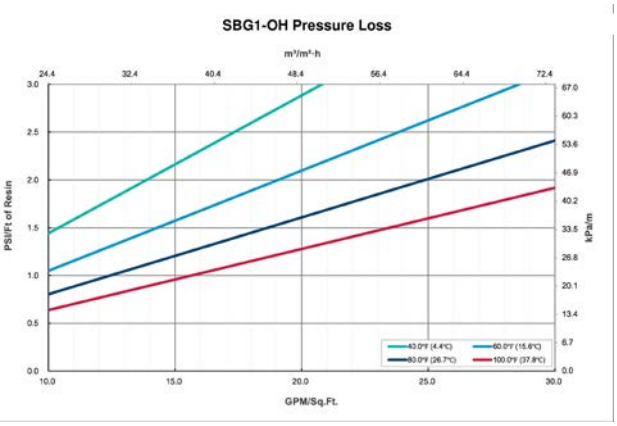
REGENERATION DETAILS

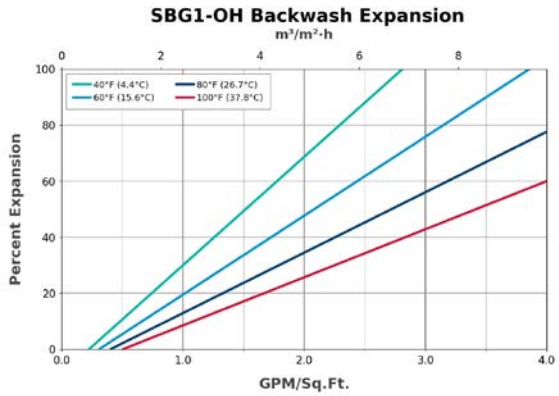
Hydroxide Cycle (NaOH)	2 to 6%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Displacement Flow Rate	Same as dilution water		

PRESSURE LOSS



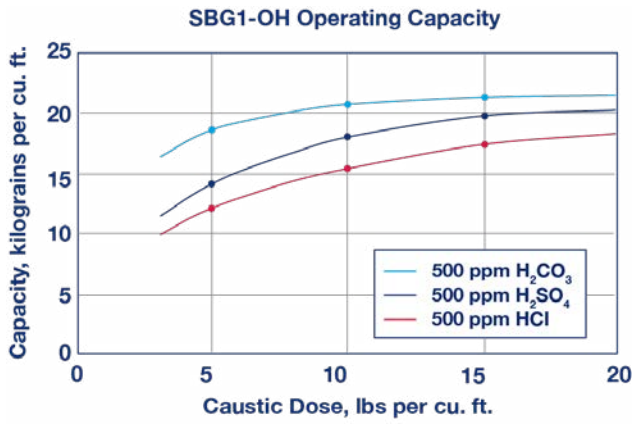
The graph above shows the expected pressure loss of ResinTech SBG1-OH per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBG1-OH as a function of flow rate at various temperatures.

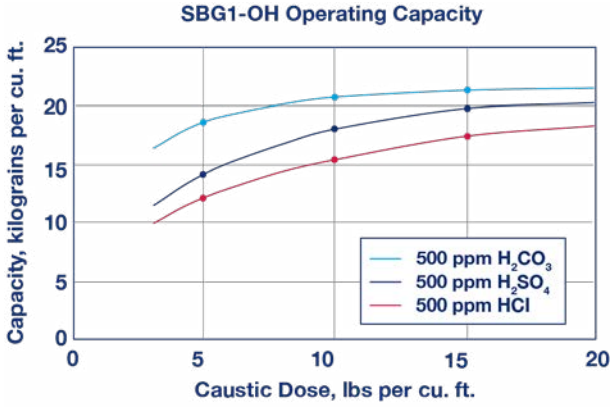
CAPACITY



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

DEMINERALIZATION

ResinTech **SBG1-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. SBG1-OH is suitable for high operating temperatures and for high flow rates encountered in polishing condensate and other low TDS waters such as RO permeate. SBG1-OH provides low TOC and low silica leakage in ultrapure demineralizers.



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CERTIFICATIONS

REACH Registered

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

41 - 43 lbs/cu.ft. (657 - 689 g/L)

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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