SBG2-OH

Grade: Standard

Strong base type 2 anion resin, styrene/DVB gel, hydroxide form

ResinTech SBG2-OH is a type 2 gel strong base anion resin in hydroxide form. SBG2-OH has lower selectivities and therefore higher chemical efficiency and better resistance to fouling than type 1 anion resins. Their thermal sensitivity can result in reduced life when operating temperatures exceed 85 F. SBG2-OH is intended for industrial demineralization applications where regeneration efficiency is important and operating temperatures are not excessive.

FEATURES & BENEFITS

- High operating capacity
- Multiple contaminant removal
- Superior physical stability
- 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	Dimethylethanolamine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	20-50 US mesh (297-841µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Reversible Swelling	8 to 12% (Cl → OH)
Capacity (meq/mL)	1.00
Moisture Retention (%)	52 to 60
Color	Orange to Dark Red

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	95°F (35°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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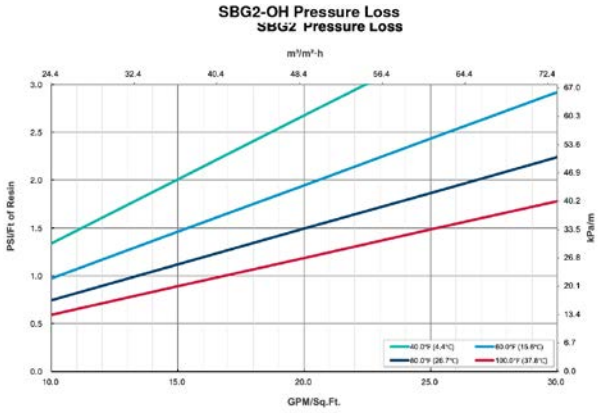
REGENERATION DETAILS

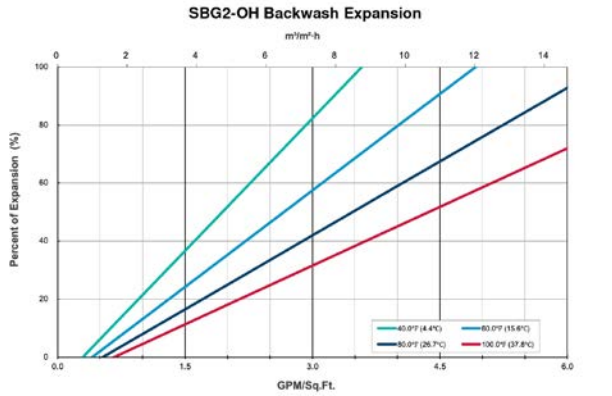
Hydroxide Cycle (NaOH)	2 to 6%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Displacement Flow Rate	Same as dilution water		

PRESSURE LOSS



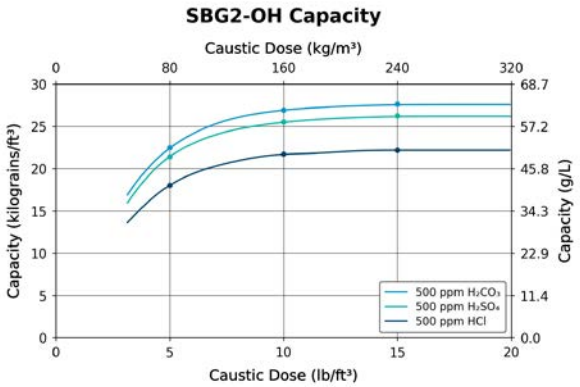
The graph above shows the expected pressure loss of ResinTech SBG2-OH per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBG2-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 SBG2-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. SBG2-OH is more efficiently regenerated than type 1 resins such as SBG1-OH and often has higher operating capacity. SBG2-OH has less objectionable odor than typically associated with type 1 anion resins.

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RELATED FILTERS

AF-XX-4202

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

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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