SBMP1-OH

Grade: Standard

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

ResinTech SBMP1-OH is a type 1 macroporous strong base anion resin in hydroxide form. It has higher crosslinking than gel anion resins, greater physical, thermal, and oxidative strength, and is optimized for waters that punish other anion resins. SBMP1-OH is intended for high flow rate and high temperature polishing applications, and for other applications that require the highest possible physical strength and chemical durability.

FEATURES & BENEFITS

- Macroporous structure
- Organic fouling resistance
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

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

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Macroporous
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)	0.90
Moisture Retention (%)	64 to 73
Shipping Weight	39 - 41 lbs/cu.ft. (625 - 657 g/L)
Color	Tan to Brown

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 - 50
Operating pH Range	0 to 14
Flow Rate	
Working Service	2-15 gpm/cu.ft. (16-120 BV/h)

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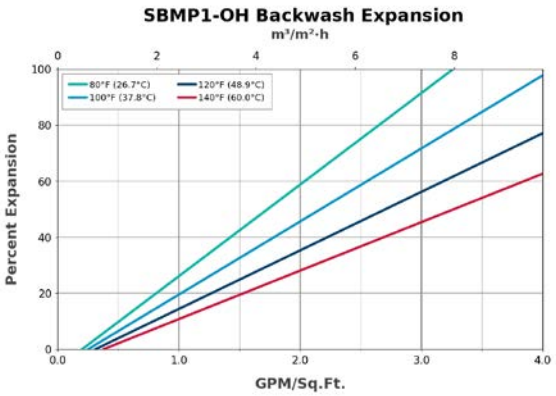
REGENERATION DETAILS

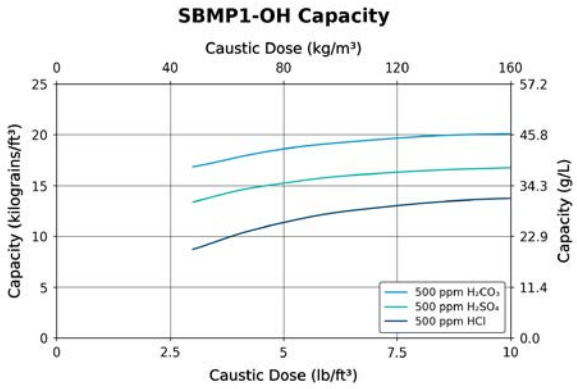
Hydroxide Cycle (NaOH)	2 to 6%	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-10 lbs/cu.ft. (64.1-160.2 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.25-1.0 gpm/cu.ft. (2-8 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	>40 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBMP1-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.

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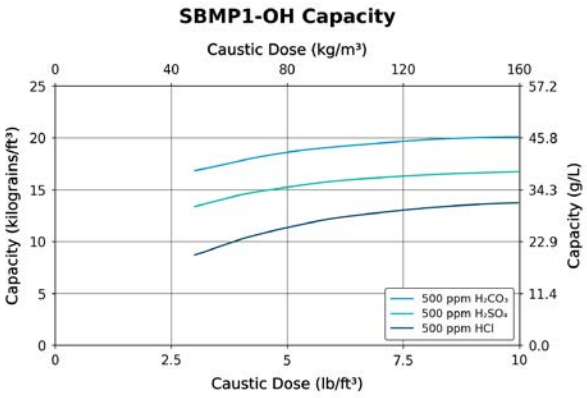
DEMINERALIZATION

ResinTech **SBMP1-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 and the highest possible durability is desired. **SBMP1-OH** is ideal for high flow rate polishers and where high resistance to mechanical, thermal, and oxidative stresses is required.



Capacity based on 500 ppm of stated acid (as $CaCO_3$). Capacity based on 36 inch bed depth, flow rate of 2 to 4 gpm per cu. ft. and greater than 40 minute caustic regenerant injection time. No engineering downgrade has been applied.

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

39 - 41 lbs/cu.ft. (625 - 657 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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