

MAGNA SBMP1-OH

STRONG BASE ANION

TYPE I ANION
STYRENIC 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.

APPLICATIONS

- Demineralization

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Macroporous
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	97%
Uniformity Coefficient	1.6
Reversible Swelling	OH to Cl -18% to -25%
Temp Limit	120°F (49°C)
Capacity (meq/mL)	0.9
Moisture Retention	64% to 73%
Shipping Weight	39 - 41 lbs/ft ³ (625 - 657 g/L)
Color	Yellow to Tan
Regenerability	Yes

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

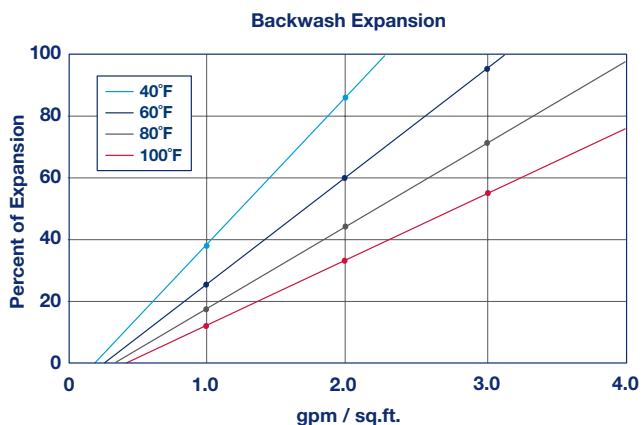
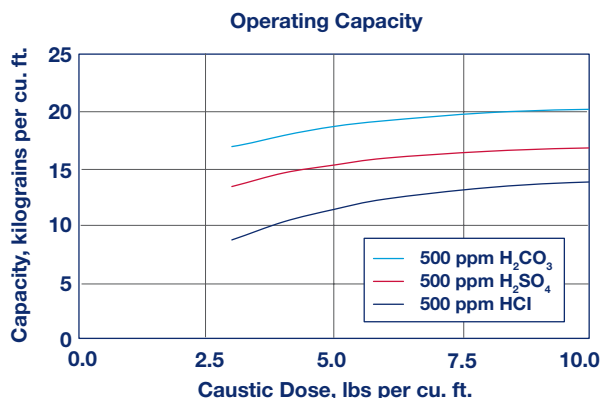
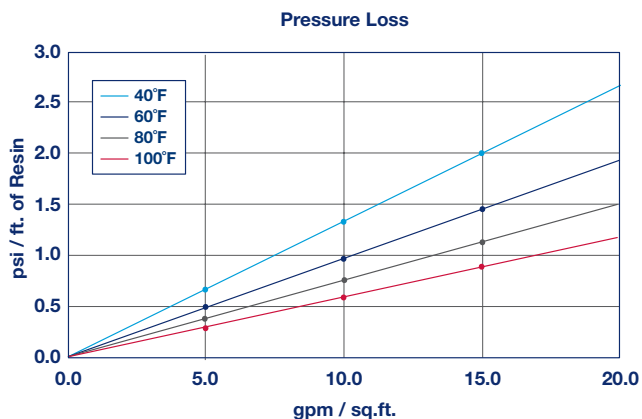
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DEMINEALIZATION

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.

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
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