

SBMP1

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

ResinTech SBMP1 is a chloride form type 1 macroporous strong base anion resin. It is optimized for waters that punish other anion resins. SBMP1 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

- Dealkalizer
- Demineralization / DI
- Trace Contaminant Removal



C US

Meets NSF/ANSI/CAN 61
Meets NSF/ANSI/CAN 372

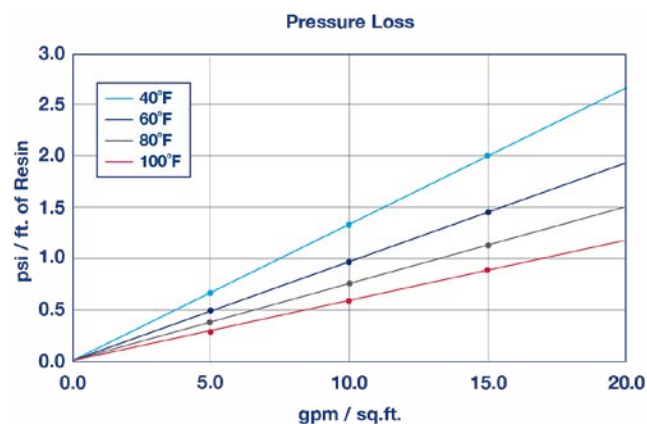
Kosher Certified
Halal Certified

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

SBMP1

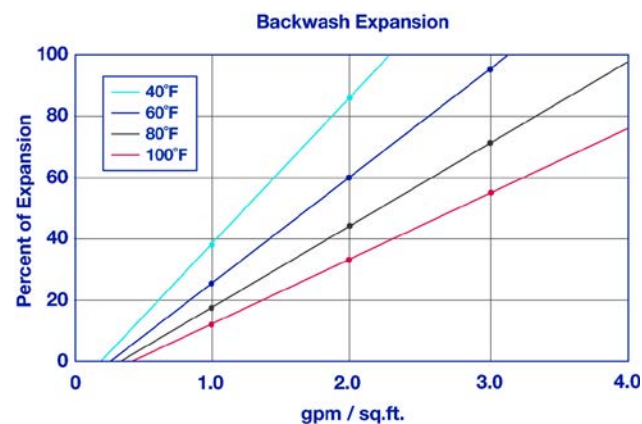
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Macroporous	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Chloride (Cl ⁻)	Uniformity	Gaussian
Functional Group	Trimethylamine	Uniformity Coefficient	1.60
Physical Form	Spherical Beads	Capacity (meq/mL)	1.10
Particle Size US Mesh (μm)	20 (841) to 50 (297)	Moisture Retention (%)	56 to 60
< 50 mesh (300 μm) %	< 1%	Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 g/L)
		Color	Tan to Brown

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech SBMP1 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 SBMP1 as a function of flow rate at various temperatures.

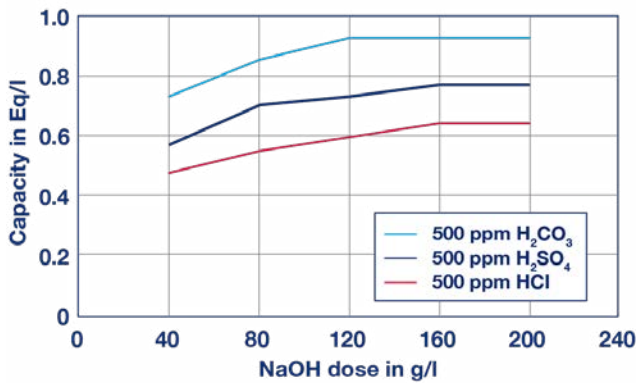
SUGGESTED OPERATING CONDITIONS

Maximum Temperature	170°F (77°C)	Flow Rate	
Maximum Pressure Loss	20 psi (138 kPa)	Working Service	2-15 gpm/cu.ft. (16-120 BV/h)
Backwash Expansion (%)	25 - 50		



CAPACITY GRAPH 1

SBMP1/SBMP1-UPS Operating 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.

RADWASTE

ResinTech **SBMP1** is ideally suited for radwaste applications requiring the removal of radioactive anions, especially when the feed is significantly radioactive. The high crosslinking content of SBMP1 gives it improved resistance to chemical damage caused by ionizing radiation. Structural integrity is maintained up to approximately 1 x 10⁹ rads exposure.

DEMINEALIZATION

See ResinTech **SBMP1-OH**.

REGENERATION DETAILS

Salt Cycle (NaCl)	2% - 10%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Displacement Flow Rate	Same as dilution water		

PACKAGING

Standard

42 cu.ft. Supersack | 7 cu.ft. Drum
 1 cu.ft. Bag | 5 cu.ft. Drum

Metric

25L Bag | 140L Drum

SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) 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](https://www.resintech.com)

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