

# PRODUCT SPECIFICATION SHEET

## MAGNA SBMP1

STRONG BASE ANION

TYPE I ANION  
POLYSTYRENIC 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.

### APPLICATIONS

- Demineralization
- Radwaste Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Styrenic Macroporous
<b>Ionic Form</b>	Chloride
<b>Functional Group</b>	Trimethylamine
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	16 to 50 US Mesh (297 - 1190 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 1%
<b>Minimum Sphericity</b>	95%
<b>Uniformity Coefficient</b>	1.6
<b>Reversible Swelling</b>	Cl to OH 15% to 20%
<b>Temp Limit</b>	170°F (77°C)
<b>Capacity (meq/mL)</b>	1.1
<b>Moisture Retention</b>	50% to 63%
<b>Shipping Weight</b>	41 - 43 lbs/ft <sup>3</sup> (657 - 689 g/L)
<b>Color</b>	White to Cream
<b>Regenerability</b>	Yes

### CERTIFICATIONS

- Halal Certified
- Kosher Certified
- FDA Compliance\*

### PACKAGING OPTIONS

- 500 ml samples
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

\* Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

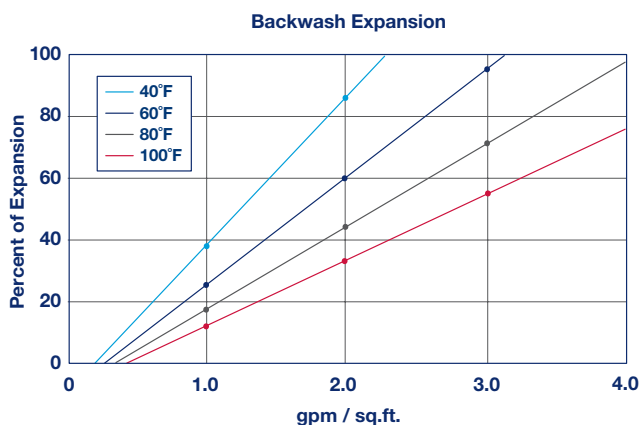
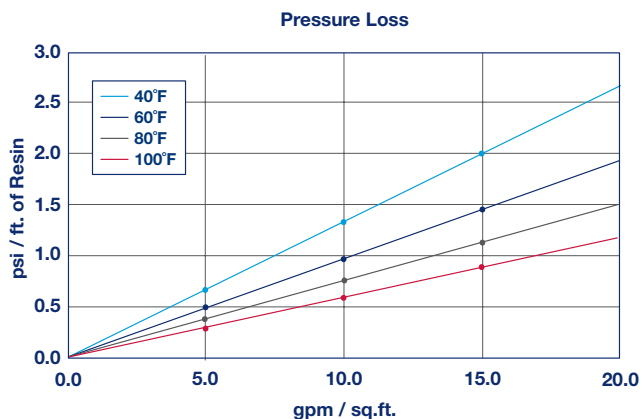
Revision 1.1  
ResinTech, Inc.®



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## 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  $1 \times 10^9$  rads exposure.

## SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Chloride form	170°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