

# PRODUCT SPECIFICATION SHEET

## MAGNA SACMP

STRONG ACID CATION

POLYSTYRENIC MACROPOROUS  
SODIUM FORM

ResinTech SACMP is a tan-colored highly cross-linked macroporous strong acid cation resin in sodium form. SACMP is optimized for waters that punish other cation resins. ResinTech SACMP is intended for high flow rate and high-temperature polishing applications, that have a significant chlorine residual, and for other applications that require the highest possible physical strength and chemical durability.

### APPLICATIONS

- Softening - Industrial
- Demineralization
- Radwaste Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Styrenic Macroporous
<b>Ionic Form</b>	Sodium
<b>Functional Group</b>	Sulfonic Acid
<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>	Na to H 4% to 6%
<b>Temp Limit</b>	300°F (149°C)
<b>Capacity (meq/mL)</b>	1.8
<b>Moisture Retention</b>	45% to 55%
<b>Shipping Weight</b>	49 - 51 lbs/ft <sup>3</sup> (785 - 817 g/L)
<b>Color</b>	Tan
<b>Regenerability</b>	Yes

### CERTIFICATIONS

Kosher Certified

### 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

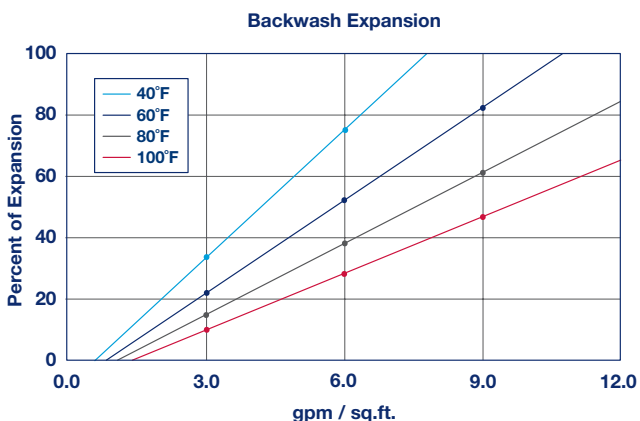
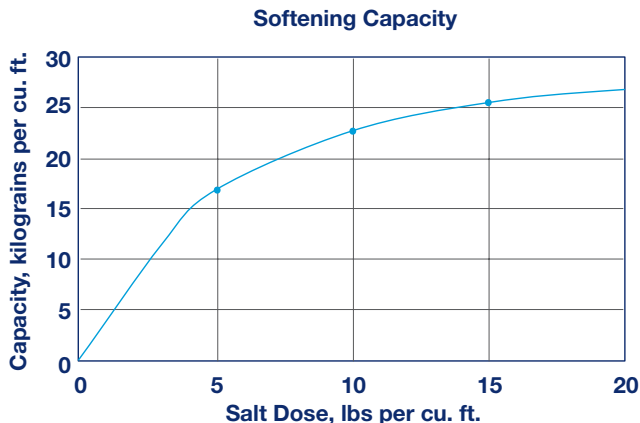
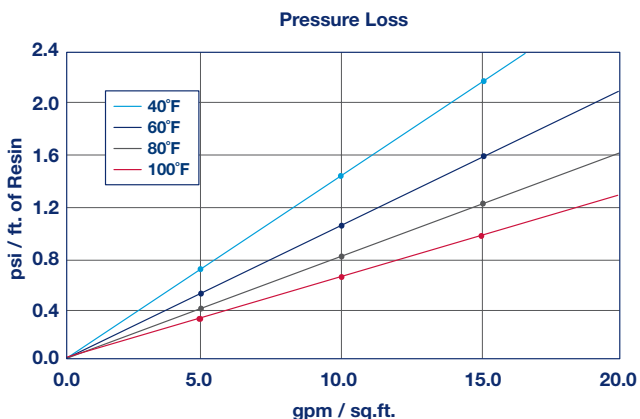
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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

**SUGGESTED OPERATING CONDITIONS**

Maximum continuous temperature	300°F
Sodium form	
Minimum bed depth	24 inches
Backwash expansion	25 to 50 percent
Maximum pressure loss	25 psi
Operating pH range	0 to 14 SU
Regenerant Concentration	
Hydrogen cycle	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H <sub>2</sub> SO <sub>4</sub>
Salt cycle	10 to 15 percent NaCl
Regenerant level	4 to 15 lbs./cu.ft.
Regenerant flow rate.	0.5 to 1.5 gpm/cu.ft.
Regenerant contact time	>20 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.

**RADWASTE**

ResinTech SACMP is ideally suited for radwaste applications. The high crosslinking content of SACMP gives it improved resistance to chemical damage caused by ionizing radiation. Structural integrity is maintained up to approximately 1x10<sup>9</sup> rads exposure.

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.

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