PRODUCT SPECIFICATION SHEET

MAGNA

SACMP-HP

STRONG ACID CATION

HIGH-PURITY GRADE
POLYSTYRENIC MACROPOROUS
SODIUM FORM

ResinTech SACMP-HP is a high purity tan-colored highly cross-linked macroporous strong acid cation resin in sodium form. The high purity designation means it is Gold Seal Certified by the WQA for use in potable water applications. SACMP-HP is optimized for waters that punish other cation resins. SACMP-HP is intended for water softening where a significant chlorine residual is present in the feedwater.

APPLICATIONS

- Softening - Municipal
- Softening - Residential

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Macroporous
Ionic Form	Sodium
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	95%
Uniformity Coefficient	1.6
Reversible Swelling	Na to H 4% to 6%
Temp Limit	300°F (149°C)
Capacity (meq/mL)	1.8
Moisture Retention	45% to 55%
Shipping Weight	49 - 51 lbs/ft³ (785 - 817 g/L)
Color	Tan
Regenerability	Yes

CERTIFICATIONS

- WQA Gold Seal*
- Kosher Certified
- FDA Compliance**

PACKAGING OPTIONS

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

* NSF/ANSI/CAN 61: Drinking Water System Components - Health Effects
** Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

Revision 1.2
ResinTech, Inc.®

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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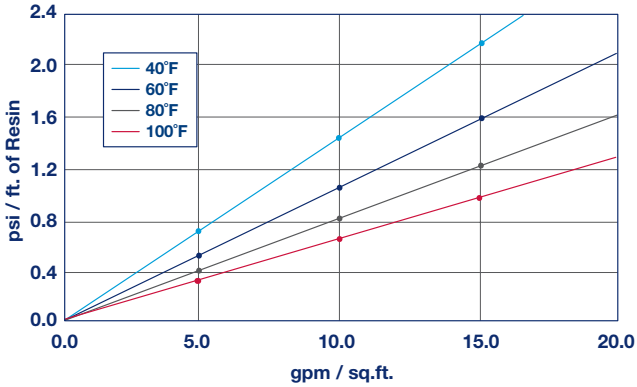
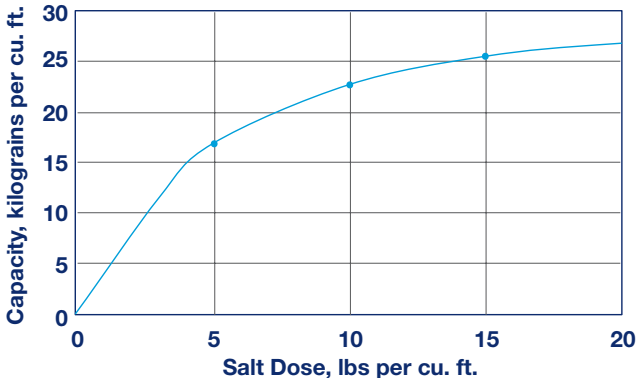
Pressure Loss

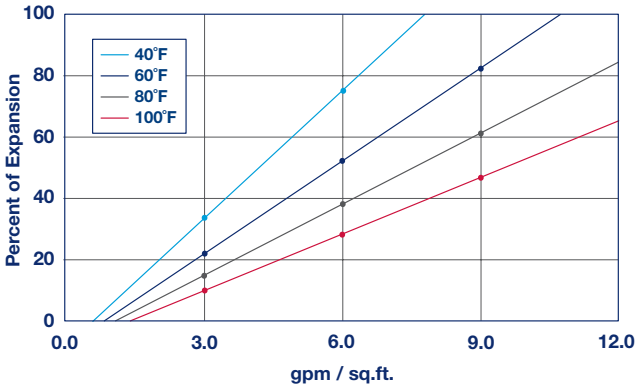


Softening Capacity



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 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.

Backwash Expansion



SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Sodium form	300˚F
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_2SO_4
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.

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

RADWASTE

ResinTech SACMP-HP is ideally suited for radwaste applications. The high crosslinking content of SACMP-HP gives it improved resistance to chemical damage caused by ionizing radiation. Structural integrity is maintained up to approximately 1x109 rads exposure.

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