

PRODUCT SPECIFICATION SHEET

MAGNA SACMP-UPS

STRONG ACID CATION

UNIFORM PARTICLE SIZE
POLYSTYRENIC MACROPOROUS
SODIUM FORM

ResinTech SACMP-UPS is a tan-colored highly cross-linked macroporous strong acid cation resin of uniform particle size in sodium form. The uniform beads and somewhat smaller harmonic mean size yield minimal pressure loss and better regeneration efficiency compared to resins with Gaussian size distribution. It is intended for use in high flow rate and high-temperature polishing.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Packed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Macroporous
Ionic Form	Sodium
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	20 to 40 US Mesh (400 - 841 μm)
% < 50 mesh (300μm)	< 0.5% minus 50
Minimum Sphericity	98%
Uniformity Coefficient	1.25
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/ft ³ (785 - 817 g/L)
Color	Tan
Regenerability	Yes
Uniform Particle Size	Yes

PACKAGING OPTIONS

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

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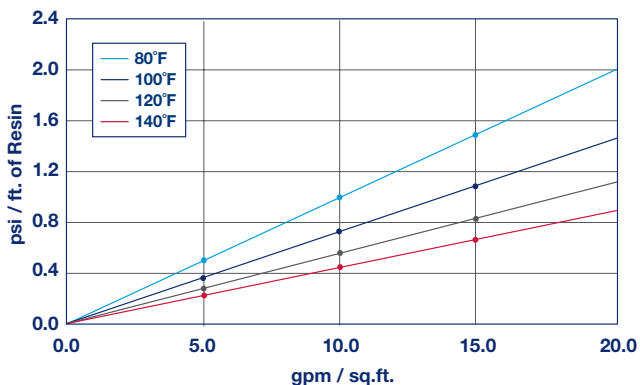


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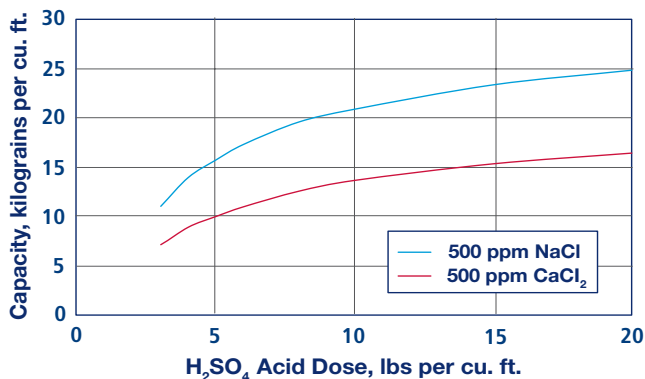
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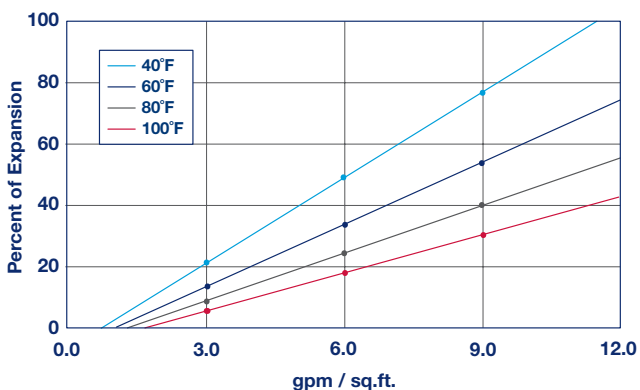
Pressure Loss



Operating Capacity



Backwash Expansion



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.

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 ₂ SO 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 15 gpm/cu.ft.

PACKED BEDS

ResinTech SACMP-UPS has a very narrow particle size range. This allows a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration and lower leakage. SACMP-UPS is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cycle.

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