

SACMP-HC

Strong acid cation resin, styrene/DVB macroporous, high capacity, sodium form

ResinTech SACMP-HC is a tan-colored, highly crosslinked, high capacity macroporous strong acid cation resin in sodium form. SACMP-HC is optimized for waters that punish other cation resins. ResinTech SACMP-HC 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.



FEATURES & BENEFITS

- Macroporous structure
- Controlled particle size
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

- Condensate Polishing
- Chlorine Tolerant
- Mixed Bed Components
- Radwaste
- Softening



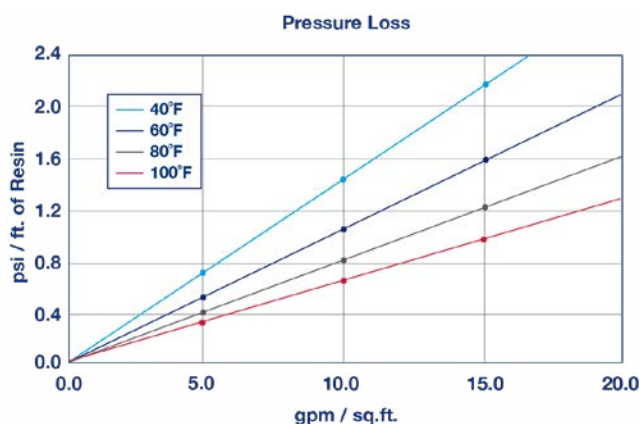
Kosher Certified

Halal Certified

SACMP-HC

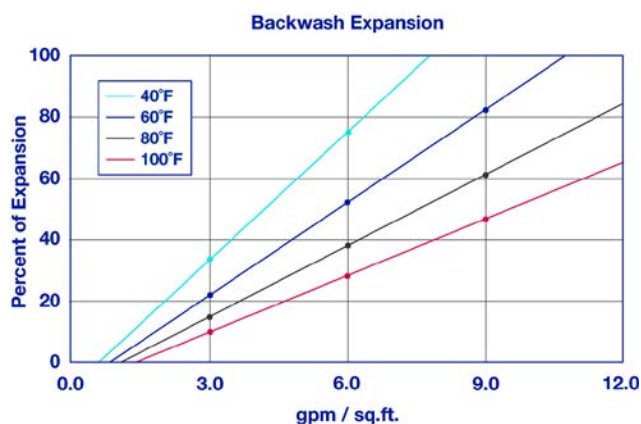
Polymer Matrix	Styrene/DVB	Reversible Swelling	3 to 5% (Na → H)
Polymer Type	Macroporous	Uniformity	Gaussian
Ionic Form (as shipped)	Sodium (Na ⁺)	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.30
Physical Form	Spherical Beads	Moisture Retention (%)	43% to 48%
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Shipping Weight	48 - 50 lbs/cu.ft. (769 - 801 g/L)
< 50 mesh (300 µm) %	< 1%	Color	Tan to Brown
Minimum Sphericity (%)	95	Regenerable	Regenerable

PRESSURE LOSS



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

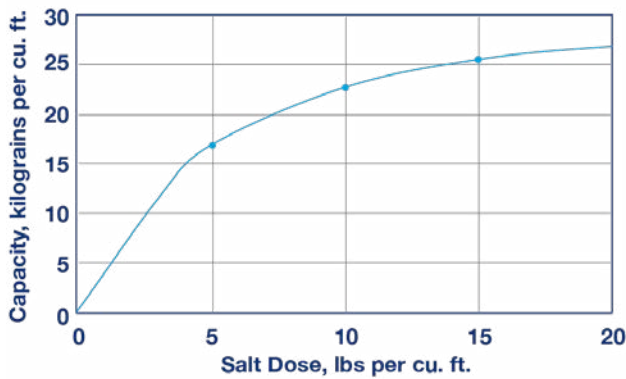
SUGGESTED OPERATING CONDITIONS

Maximum Temperature	300°F (149°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 - 50		



CAPACITY GRAPH 1

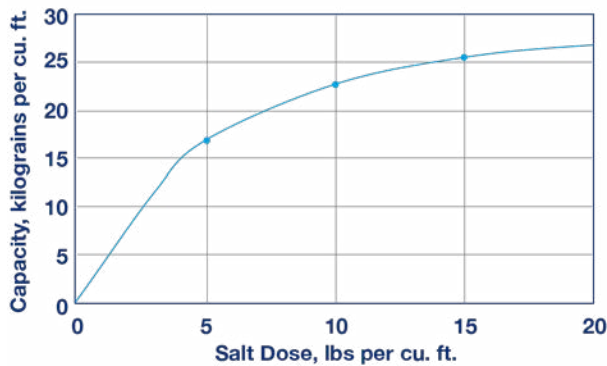
Softening Capacity



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.

SOFTENING

Softening 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 cocurrently through the resin over 30 minutes. No engineering downgrade has been applied.

RADWASTE

ResinTech **SACMP-HC** is ideally suited for radwaste applications. The high crosslinking content of **SACMP-HC** 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 **SACMP-H-HC**.

REGENERATION DETAILS

Salt Cycle (NaCl)	10% - 15%	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 20 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PACKAGING**Standard**

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

Metric

140L Drum | 200L 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

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