

# SACMP-H-UPS

## Strong acid cation resin, styrene/DVB macroporous, uniform particle size, hydrogen form

ResinTech SACMP-H-UPS is a uniform particle size macroporous strong acid cation resin in the hydrogen form. It is tan in color and highly crosslinked. 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 high flow rate and high-temperature polishing where a hydrogen form cation resin is required.



### FEATURES & BENEFITS

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

### APPLICATIONS

- Amine Cycle Polishing
- Condensate Polishing
- Mixed Bed Components



Meets NSF/ANSI/CAN 61

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

SACMP-H-UPS

Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	98
Polymer Type	Macroporous	Uniformity	UPS
Ionic Form (as shipped)	Hydrogen (H <sup>+</sup> )	Uniformity Coefficient	1.25
Functional Group	Sulfonic Acid	Capacity (meq/mL)	1.70
Physical Form	Spherical Beads	Moisture Retention (%)	50 to 60
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Shipping Weight	47 - 49 lbs/cu.ft. (753 - 785 g/L)
< 50 mesh (300 µm) %	< 0.5%	Color	Tan
		Regenerable	Regenerable

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	280°F (138°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		

**DEMINERALIZATION**

ResinTech **SACMP-H-UPS** can be used in a variety of demineralization configurations. **SACMP-H-UPS** is ideal for high flow rate polishers and where high resistance to mechanical, thermal, and oxidative stresses is required.

**REGENERATION DETAILS**

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



**PACKAGING****Standard**

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

**Metric**

25L Bag | 140L 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](https://resintech.com)

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