PRODUCT SPECIFICATION SHEET

CG8-H-UPS

STRONG ACID CATION

UNIFORM PARTICLE SIZE
POLYSTYRENIC GEL
8% CROSSLINKED
HYDROGEN FORM

ResinTech CG8-H-UPS is an amber-colored uniform particle size hydrogen form 8% cross-linked gel strong acid cation resin. The uniform beads and somewhat smaller harmonic mean size yields minimal pressure loss and better regeneration efficiency compared to Gaussian-sized resins. It is intended for use in all industrial applications that require a hydrogen form cation resin and is recommended for countercurrently regenerated systems such as packed beds.

APPLICATIONS

- Demineralization
- Packed Beds
- Cation Component in Mixed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Hydrogen
Functional Group	Sulfonio Acid
Physical Form Particle Size % < 50 mesh (300µm) Minimum Sphericity Uniformity Coefficient Reversible Swelling Temp Limit	Sprierical Beads ON
Particle Size	20 to, 40 US Mash 400 - 841 μm)
% < 50 mesh (300μm)	< 0.5% minus 50
Minimum Sphericity	95%
Uniformity Coefficient	1.25
Reversible Swelling	H to Na -5% to -8%
Temp Limit	265°F (129°C)
Capacity (meq/mL)	1.8
Moisture Retention	47% to 56%
Shipping Weight	50 - 52 lbs/ft ³ (801 - 833 g/L)
Color	Amber
Regenerability	Yes
Uniform Particle Size	Yes

PACKAGING OPTIONS

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

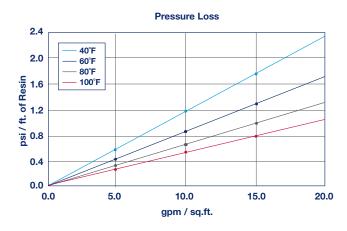
Revision 1.2 ResinTech, Inc.®

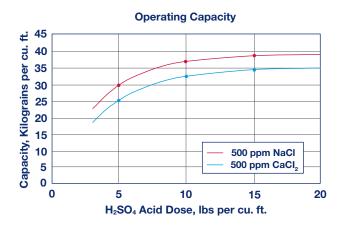


CG8-H-UPS

STRONG ACID CATION

UNIFORM PARTICLE SIZE POLYSTYRENIC GEL 8% CROSSLINKED HYDROGEN FORM





suggested operating conditions

Suggested operating conditions

Waximum continuous temperature
Hydrogen form
Minimum bed depth
Backeys **Backwash Expansion** 100 40°F 60°F 80 Percent of Expansion 80°F 100°F 60 40 20 n 3.0 12.0 0.0 gpm / sq.ft.

Capacity based on 500 ppm of stated salt (as CaCO₃) with 0% alkalinity, 36 in. bed depth, flow rate of 2 to 4 gpm per cu. ft. and >30 min. chemical injection time. Sulfuric

DEMINERALIZATION

CG8-H-UPS can be used as the cation component in a variety of demineralization applications where a hydrogen form cation resin is coupled with a hydroxide form anion resin. Common configurations include separate beds, mixed beds and other more complicated ar- rangements. Regeneration is accomplished with stepwise sulfuric acid or with hydrochloric acid.

265°F 24 inches 25 to 50 percent 25 psi 0 to 14 SU Operating pH range

Regenerant Concentration 5 to 10 percent HCI Hydrogen cycle Hydrogen cycle 1 to 8 percent H₂SO₄ 10 to 15 percent NaCl Salt cycle 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

Revision 1.1 ResinTech, Inc.®

