

POLYSTYRENIC GEL 8% CROSSLINKED HYDROGEN FORM

ResinTech CG8-H is an amber-colored hydrogen form 8% cross-linked gel strong acid cation resin. It is a workhorse cation resin optimized for industrial applications that require good regeneration efficiency and oxidative stability in a hydrogen form cation resin. CG8-H is intended for use in all industrial applications such as demineralization where a hydrogen form cation resin is required.

APPLICATIONS

- Demineralization
- Cation Component in Mixed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Hydrogen
Fuctional Group	Sulfonic Acid
Physical Form	Sphelical Beads
Particle Size	46 to 50 US Mesh (297 - 1190 μm)
% < 50 mesh (300μm)	LE Jo NCALS.
Fuctional Group Physical Form Particle Size % < 50 mesh (300µm) Minimum Sphericity Uniformity Coefficient Reversible Swelling Temp Limit Capacity (meq/mL)	9F%NIIC
Uniformity Coefficient	1.6
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	49 - 51 lbs/ft³ (785 - 817 g/L)
Color	Amber
Regenerability	Yes

PACKAGING OPTIONS

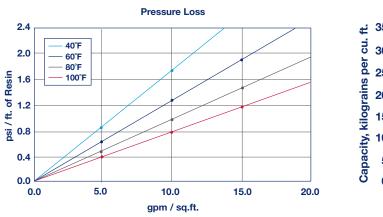
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

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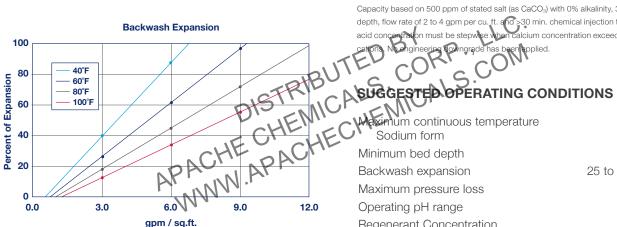


POLYSTYRENIC GEL 8% CROSSLINKED **HYDROGEN FORM**



Operating Capacity 35 30 25 20 15 10 500 ppm NaCl 500 ppm CaCl₂ 5 0 0 5 10 15 20 H₂SO₄ Acid Dose, lbs per cu. 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 alcium concentration exceeds 20% of total



DEMINERALIZATION

ResinTech CG8-H can be used as the cation component in separate bed and mixed bed demineralization applications where a hydrogen form cation resin is coupled with a hydroxide form anion resin. Regeneration is accomplished with stepwise sulfuric acid or with hydrochloric acid.

Maximum continuous temperature	
Sodium form	265°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 Hydrogen cycle Salt cycle	5 to 10 percent HCI 1 to 8 percent H2S04 10 to 15 percent NaCI
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



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