PRODUCT SPECIFICATION SHEET

MAGNA

CG8-H

STRONG ACID CATION

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
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
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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INNOVATIONS IN ION EXCHANGE

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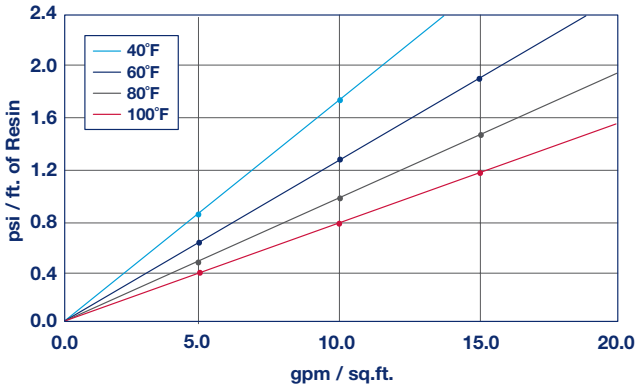
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CG8-H

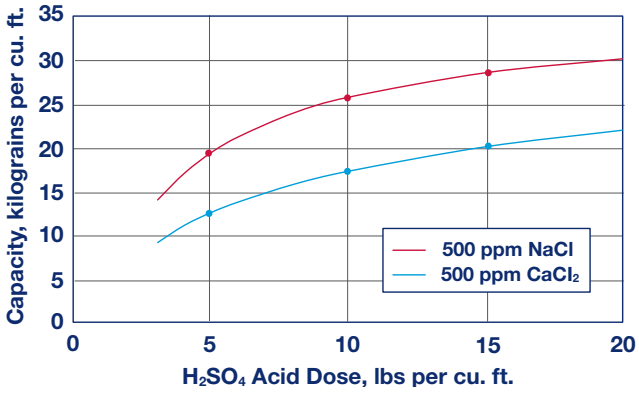
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Pressure Loss

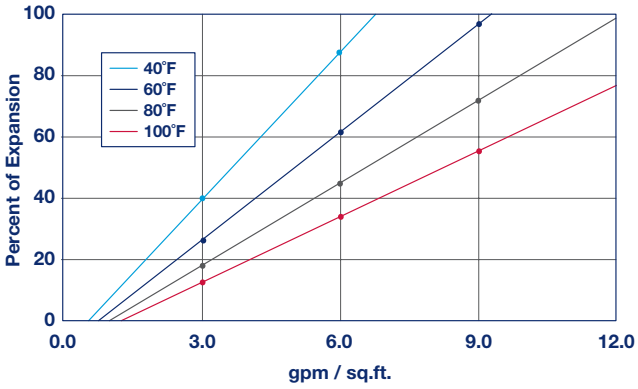


Operating Capacity



Capacity based on 500 ppm of stated salt (as $CaCO_3$) with 0% alkalinity, 36 in. bed depth, flow rate of 2 to 4 gpm per cu. ft. and >30 min. chemical injection time. Sulfuric acid concentration must be stepwise when calcium concentration exceeds 20% of total cations. No engineering downgrade has been applied.

Backwash Expansion



SUGGESTED OPERATING CONDITIONS

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	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H_2S04
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 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

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.

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