

HIGH-PURITY GRADE POLYSTYRENIC GEL 8% CROSSLINKED SODIUM FORM

ResinTech CG8-HP high purity strong acid cation resin in sodium form. It is amber in color and made from a 8% cross-linked gel. The HP (high purity) designation means it is Gold Seal Certified by the WQA for use in potable water applications. CG8-HP is intended for softening and other salt form applications that require potable water certification.

### **APPLICATIONS**

- Softening Municipal
- Radium Removal
- Softening Residential

**NOTE:** NSF/ANSI-61 compliance requires conditioning with a minimum 20 bed volume rinse prior to first use.

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TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS			
Polymer Matrix	Styrenic Gel		
Ionic Form	Sodium		
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	Na to H 5% to 9%		
Temp Limit	280°F (138°C)		
Capacity (meq/mL)	2.0		
Moisture Retention	42% to 49%		
Shipping Weight	51 - 53 lbs/ft³ (817 - 849 g/L)		
Color	Amber		
Regenerability	Yes		

# CERTIFICATIONS

- WQA Gold Seal\*
- Kosher Certified
- FDA Compliance\*\*

#### **PACKAGING OPTIONS**

- 500 ml samples
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

**RESINTECH INC.** 

\* NSF/ANSI/CAN 61: Drinking Water System Components - Health Effects

- $^{\star\star}$  Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA
- Revision 1.3 ResinTech, Inc.®

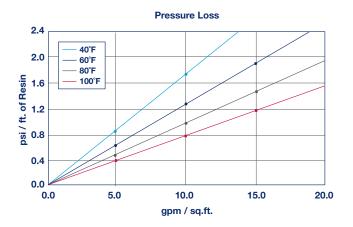


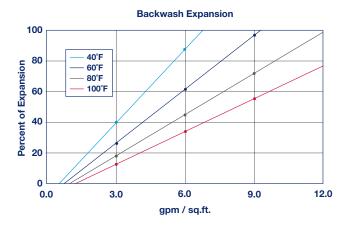


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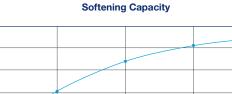


# **IRON REMOVAL**

CG8-HP has good capacity for ferrous iron. Iron content in the feedwater should not be more than 1 mg/L Fe per each 17 mg/L of hardness.

### AMMONIA REMOVAL

CG8-HP is slightly selective for ammonia compared to sodium but hardness is much more preferred. Ammonia is not ionized at pH above 9 and is not well removed when the pH is significantly alkaline.



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Capacity, Kilograins per cu.

Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as  $CaCO_3$ , 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.

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Salt Dose, lbs per cu. ft.

### SUGGESTED OPERATING CONDITIONS

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Maximum continuous temperature	
Sodium form	280°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 HCI
Hydrogen cycle	1 to 8 percent $H_2SO_4$
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



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