

RESINTECH CG8-C is a sodium form 8% crosslinked gel strong acid cation resin. CG8-C is a coarse mesh resin with low surface area and high void volume. RESINTECH CG8-C is intended for use in high flow rate applications where the lowest possible pressure loss and highest possible flow rate is needed. CG8-C is supplied in the sodium form.



**C US**  
**NSF/ANSI-61 CERTIFIED FOR  
MATERIAL SAFETY**

WQA Gold Seal Certified when ordered as CG8-C-HP

## FEATURES & BENEFITS

- HIGHLY UNIFORM COARSE PARTICLE SIZE**

16 to 30 mesh size provides low pressure drop in high flowrate applications and helps prevent suspended solids from restricting flow

- LOW COLOR THROW**

- SUPERIOR PHYSICAL STABILITY**

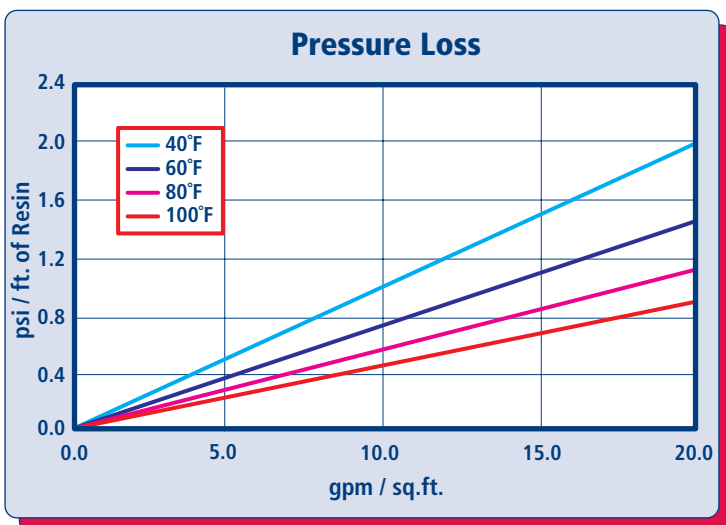
93% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop

- COMPLIES WITH US FDA REGULATIONS**

Conforms to paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

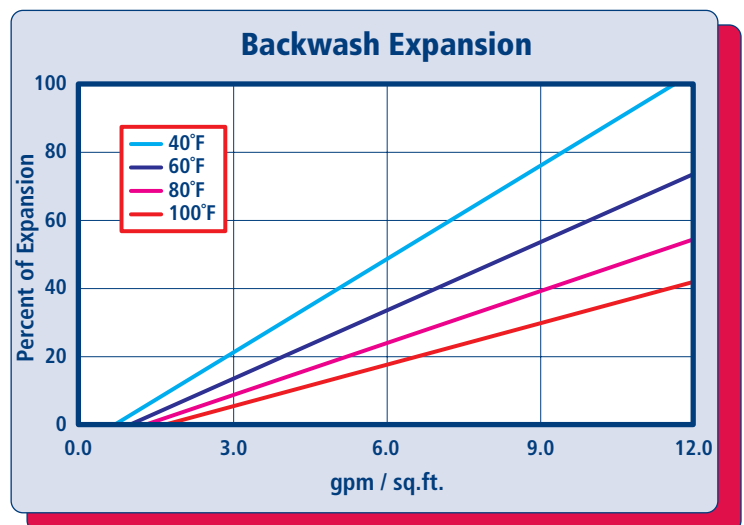
NSF/ANSI-61 compliance requires conditioning with a minimum 20 bed volume rinse prior to first use.

## HYDRAULIC PROPERTIES



### PRESSURE LOSS

The graph above shows the expected pressure loss of ResinTech CG8-C per foot of bed depth as a function of flow rate at various temperatures.



### BACKWASH

The graph above shows the expansion characteristics of ResinTech CG8-C as a function of flow rate at various temperatures.

## PHYSICAL PROPERTIES

Polymer Structure	Styrene/DVB
Polymer Type	Gel
Functional Group	Sulfonic Acid
Physical Form	Spherical beads
Ionic Form as shipped	Sodium
Total Capacity Sodium form	>2.0 meq/mL
Water Retention Sodium form	42 to 49 percent
Approximate Shipping Weight Sodium form	52 lbs./cu.ft.
Screen Size Distribution (U.S. mesh)	16 to 30
Maximum Fines Content (<50 mesh)	1 percent
Minimum Sphericity	93 percent
Uniformity Coefficient	1.4 approx.
Resin Color	Amber

Note: Physical properties can be certified on a per lot basis, available upon request

## SUGGESTED OPERATING CONDITIONS

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 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

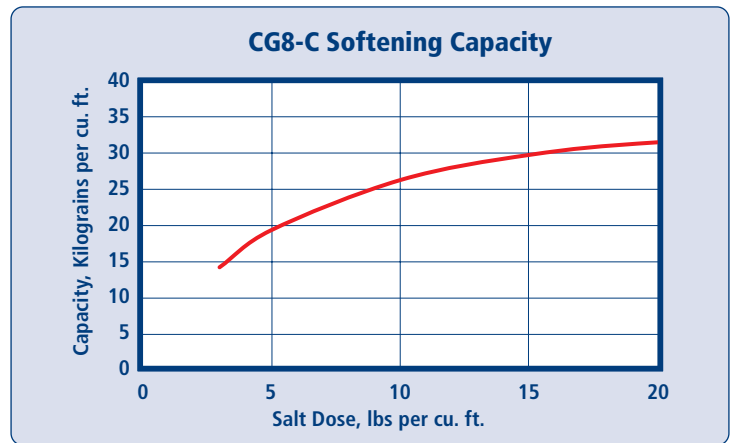
## APPLICATIONS

### HIGH FLOW RATE USE

RESINTECH CG8-C is made with a large bead size which increases the void spaces between the beads and reduces the surface area, thus reducing the resistance to water flow through the resin bed. Because the resin bed has lower pressure loss the resin can operate at high flow rates. High flow rates are useful in polishing applications where a large resin volume is not needed to provide a long throughput between regenerations. It should be understood that the rate of ion exchange is somewhat slower due to the large bead size.

### SOFTENING

RESINTECH CG8-C is an 8% crosslinked cation resin optimized for industrial softening applications. CG8-C is suitable for hot water applications and for waters that contain modest levels of chlorine.



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 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.

