

RESINTECH CG8 is a sodium form 8% crosslinked gel strong acid cation resin. CG8 is a workhorse cation resin optimized for industrial and residential applications that require good regeneration efficiency and oxidative stability. RESINTECH CG8 is intended for use in all industrial and commercial softening applications, as well as residential applications that have moderate amounts of chlorine in the feedwater. CG8-H is intended for use in demineralizers and in mixed beds. CG8 is available in the sodium or hydrogen form (when ordered as CG8-H).



WQA Gold Seal Certified when ordered as CG8-HP

FEATURES & BENEFITS

- INDUSTRIAL SOFTENING AND DEMINERALIZING APPLICATIONS 8% DVB crosslinking is ideal for most industrial applications
- LOW COLOR THROW
- SUPERIOR PHYSICAL STABILITY

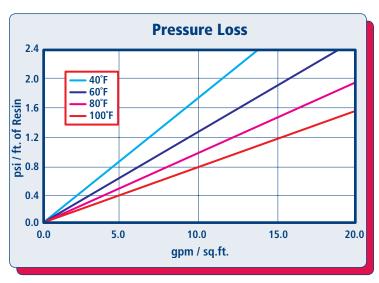
93% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop

COMPLIES WITH US FDA REGULATIONS

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

Prior to first use for potable water, resin should be backwashed for a minimum of 20 minutes, followed by 10 bed volumes of downflow rinse.

HYDRAULIC PROPERTIES





PRESSURE LOSS

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

The graph above shows the expansion characteristics of ResinTech

RESINTECH® CG8

PHYSICAL PROPERTIES

Polymer Structure Styrene/DVB

Polymer Type Gel

Functional Group Sulfonic Acid
Physical Form Spherical beads
Ionic Form as shipped Sodium or Hydrogen

Total Capacity

Hydrogen form >1.8 meq/mL Sodium form >2.0 meg/mL

Water Retention

Resin Color

Hydrogen form 47 to 56 percent Sodium form 42 to 49 percent

Approximate Shipping Weight

Hydrogen form 50 lbs./cu.ft.
Sodium form 52 lbs./cu.ft.

Swelling, Na to H 5 to 9 percent

Screen Size Distribution (U.S. mesh) 16 to 50

Maximum Fines Content (<50 mesh) 1 percent

Minimum Sphericity 93 percent

Uniformity Coefficient 1.6 approx.

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

SUGGESTED OPERATING CONDITIONS

Amber

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
Hydrogen cycle
Salt cycle

Regenerant level

Regenerant flow rate.

Sto 10 percent HCI
1 to 8 percent H₂S0₄
10 to 15 percent NaCl
4 to 15 lbs./cu.ft.

0.5 to 1.5 gpm/cu.ft.

>20 minutes

Displacement flow rate

Displacement volume

Displacement volume

10 to 15 gallons/cu.ft.

Same as service flow

Rinse volume

35 to 60 gallons/cu.ft.

Service flow rate

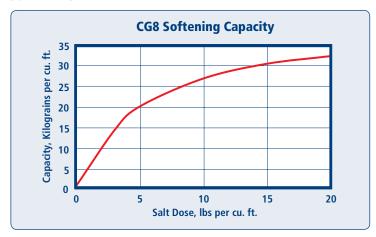
1 to 10 gpm/cu.ft.

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

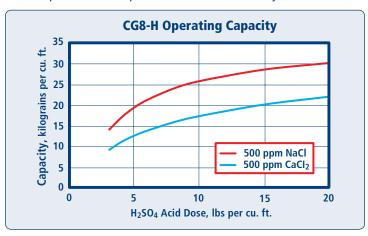
SOFTENING



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 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.

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.



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 acid concentration must be stepwise when calcium concentration exceeds 20% of total cations. No engineering downgrade has been applied.

IRON REMOVAL

CG8 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

RESINTECH CG8 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.



East Coast - West Berlin, NJ p:856.768.9600 • Midwest - Chicago, IL p:708.777.1167 • West Coast - Los Angeles, CA p:323.262.1600