

RESINTECH CG8-F is a sodium form 8% crosslinked gel strong acid cation resin. CG8-F is a fine mesh resin with high surface area and a short diffusion path from the surface to the center of the bead. ResinTech CG8-F is intended for use in applications such as iron removal where extra surface area and a short diffusion path are needed for improved kinetics and/or when operating in high TDS solutions. CG8-F is available in the sodium form.



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

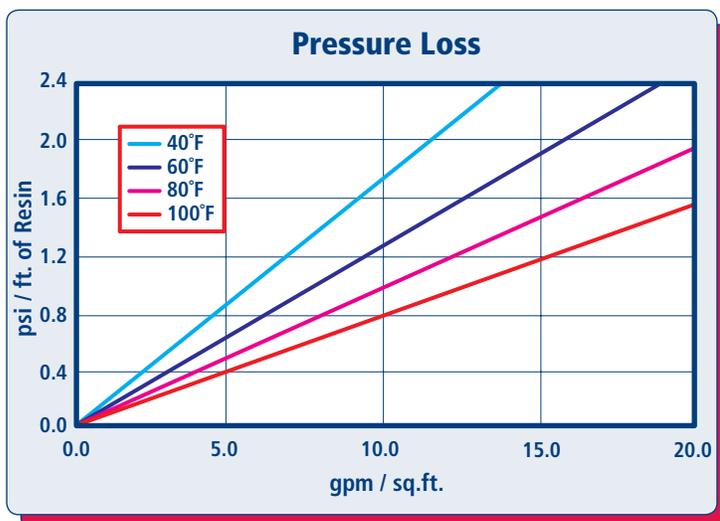
WQA Gold Seal Certified when ordered as CG8-F-HP

FEATURES & BENEFITS

- HIGHLY UNIFORM FINE PARTICLE SIZE**
 30 to 50 mesh size provides superior kinetics for high efficiency softeners; also effective for iron-bearing waters
- 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-F 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-F 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	50 lbs./cu.ft.
Screen Size Distribution (U.S. mesh)	30 to 50
Maximum Fines Content (<50 mesh)	30 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

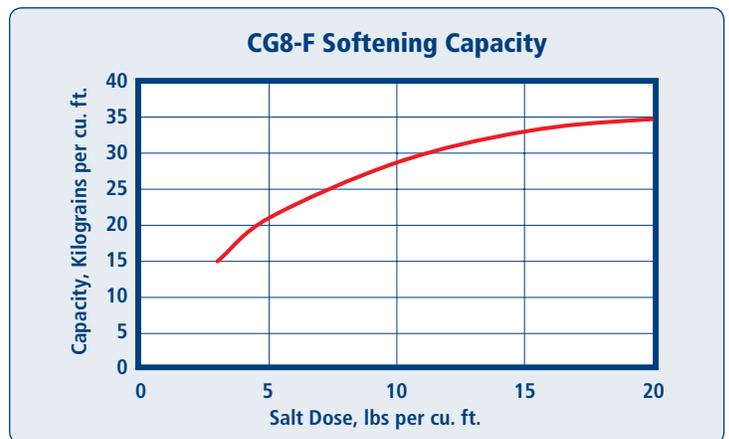
APPLICATIONS

IRON REMOVAL

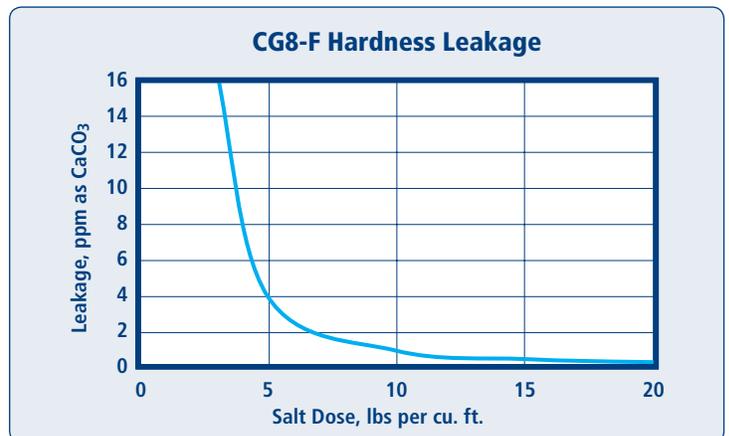
RESINTECH CG8-F has good capacity for iron removal. Soluble (ferrous) iron is removed by ion exchange, in much the same way as hardness ions are removed. Particulate (ferric) iron is removed by filtration. As a general rule of thumb, to protect against fouling, the iron content in the feedwater should not be more than 1 mg/L Fe per each 17 mg/L of hardness. This ensures an adequate salt dose and frequent regenerations which help prevent fouling.

SOFTENING

RESINTECH CG8-F is an 8% crosslinked cation resin optimized for industrial softening applications. CG8-F has higher total capacity than standard crosslinked resins such as CGS and has higher operating capacity when relatively large brine doses are used during regeneration. CG8-F 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 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.



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CAUTION: DO NOT MIX ION EXCHANGE RESIN WITH STRONG OXIDIZING AGENTS. Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials, such as ion exchange resins. MATERIAL SAFETY DATA SHEETS (MSDS) are available for all ResinTech Inc. products. To obtain a copy, contact your local ResinTech sales representative or our corporate headquarters. They contain important health and safety information. That information may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used. These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

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