

# CG8

## Strong acid cation resin, styrene/DVB 8% crosslinked gel, sodium form

ResinTech CG8 is a strong acid cation resin in the sodium form. It is amber in color and made from 8% crosslinked gel. It is a workhorse cation resin optimized for commercial/industrial and residential softening applications that require good regeneration efficiency and oxidative stability. CG8 is intended for use in all commercial and industrial applications including both softening and demineralization.



### FEATURES & BENEFITS

- Industrial softening and demineralizing applications
- Low color throw
- Superior physical stability

### APPLICATIONS

- Industrial Demineralization
- Softening - Commercial
- Softening - Industrial
- Softening - Residential



Meets NSF/ANSI/CAN 44

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

REACH Registered

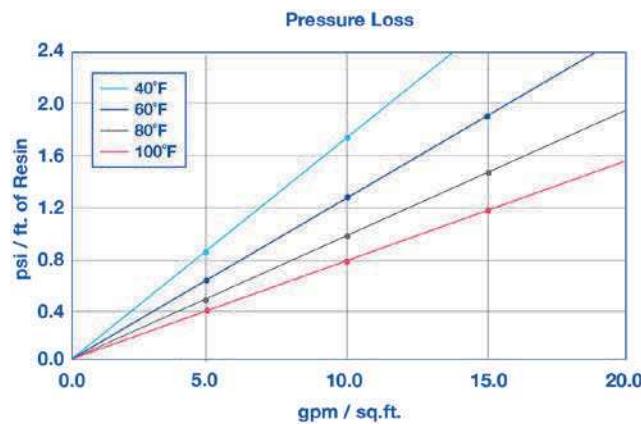
Kosher Certified

Halal Certified

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

Polymer Matrix	Styrene/DVB	Reversible Swelling	5 to 9% (Na → H)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Sodium (Na <sup>+</sup> )	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.00
Physical Form	Spherical Beads	Moisture Retention (%)	42 to 49
Particle Size US Mesh (μm)	16 (1190) to 50 (297)	Shipping Weight	50 - 52 lbs/cu.ft. (801 - 833 g/L)
< 50 mesh (300 μm) %	< 1%	Color	Amber
Minimum Sphericity (%)	93	Regenerable	Regenerable

## 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 various temperatures.

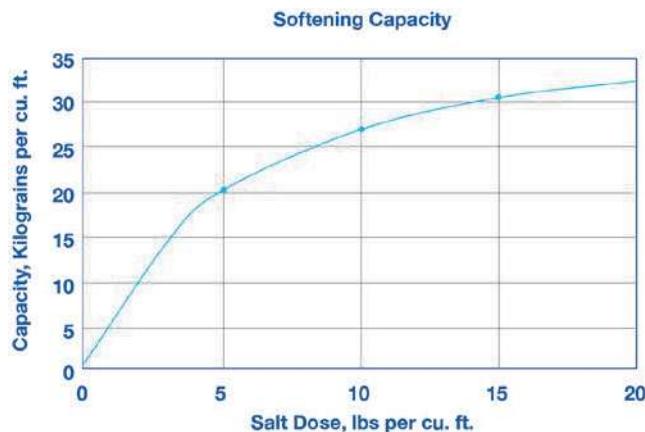
## BACKWASH EXPANSION



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

## SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 to 50		

**SOFTENING**

Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as  $\text{CaCO}_3$ , 0.2% hardness in the salt and 10% brine concentration applied concurrently through the resin over 30 minutes. 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.

**DEMINERALIZATION**

See ResinTech **CG8-H**.

**REGENERATION DETAILS**

Salt Cycle (NaCl)	10 to 15%	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 20 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

**PACKAGING****Standard**

1 cu.ft. Bag | 42 cu.ft. Supersack  
5 cu.ft. Drum | 7 cu.ft. Drum

**Metric**

140L Drum | 200L Drum

**RELATED FILTERS**

AF-XX-3003

## SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that 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.

Safety Data Sheets (SDS) are available at [resintech.com](http://resintech.com)

Page 4 of 4

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