

# MAGNA CG8-F

STRONG ACID CATION

**FINE MESH POLYSTYRENIC GEL**  
**8% CROSSLINKED**  
**SODIUM FORM**

ResinTech CG8-F is an amber-colored fine mesh strong acid cation resin in sodium form made with an 8% cross-linked gel. It offers faster kinetics and improved regeneration efficiency compared to similar resins with larger beads. CG8-F is intended for industrial softening applications that have high levels of iron in the feedwater, where resin bed depth is less than ideal, and for applications that challenge the kinetic limits of larger size resins.

## APPLICATIONS

- Softening - Industrial
- Demineralization
- Iron Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Styrenic Gel
<b>Ionic Form</b>	Sodium
<b>Functional Group</b>	Sulfonic Acid
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	30 to 50 US Mesh (297 - 595 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 30%
<b>Minimum Sphericity</b>	93%
<b>Uniformity Coefficient</b>	1.4
<b>Reversible Swelling</b>	Na to H 5% to 9%
<b>Temp Limit</b>	280°F (138°C)
<b>Capacity (meq/mL)</b>	2.0
<b>Moisture Retention</b>	42% to 52%
<b>Shipping Weight</b>	49 - 51 lbs/ft <sup>3</sup> (785 - 817 g/L)
<b>Color</b>	Amber
<b>Regenerability</b>	Yes

## CERTIFICATIONS

- Kosher Certified
- Halal Certified

## 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

Revision 1.0  
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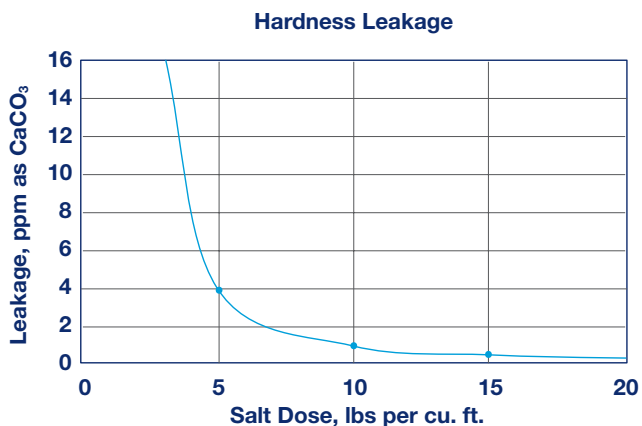
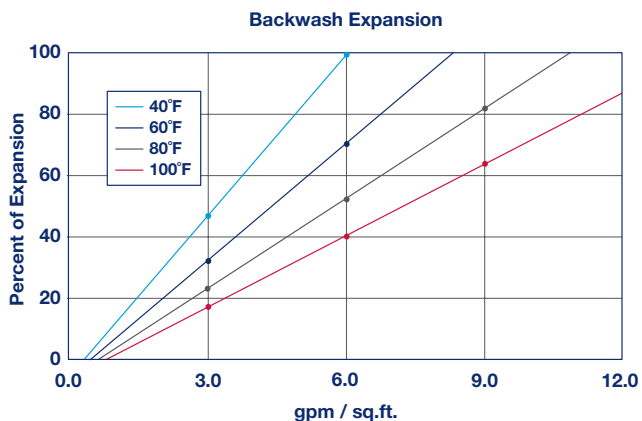
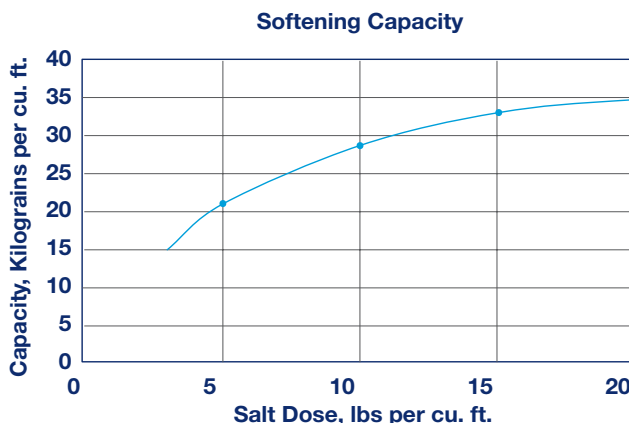
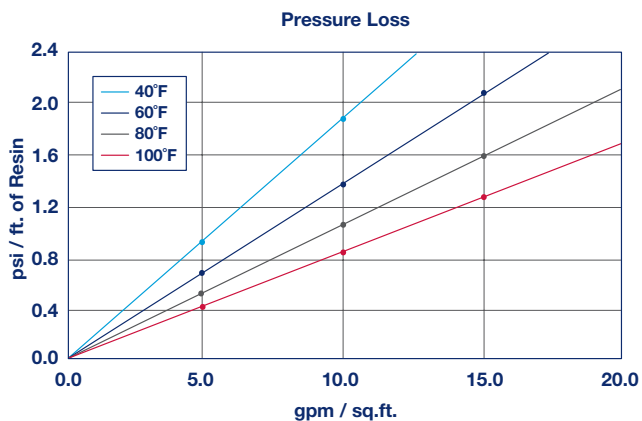


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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	280°F
Sodium form	
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 HCl
Hydrogen cycle	1 to 8 percent H <sub>2</sub> SO <sub>4</sub>
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