

PRODUCT SPECIFICATION SHEET

MAGNA CG10-C

STRONG ACID CATION

COARSE MESH POLYSTYRENIC GEL
10% CROSSLINKED
SODIUM FORM

ResinTech CG10-C is a coarse mesh, premium-grade strong acid cation resin in sodium form. It is amber in color and made from a 10% cross-linked gel. It has the same high resistance to physical, thermal, and chemical degradation as other resins in the CG10 family. CG10-C is intended for use in industrial applications where minimizing pressure loss is essential even when suspended solids may be present.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Softening - High Flow Rate

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

Polymer Matrix	Styrenic Gel
Ionic Form	Sodium
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	16 to 30 US Mesh (595 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.4
Reversible Swelling	Na to H 4% to 8%
Temp Limit	280°F (138°C)
Capacity (meq/mL)	2.2
Moisture Retention	39% to 45%
Shipping Weight	52 - 54 lbs/ft ³ (833 - 865 g/L)
Color	Amber
Regenerability	Yes

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

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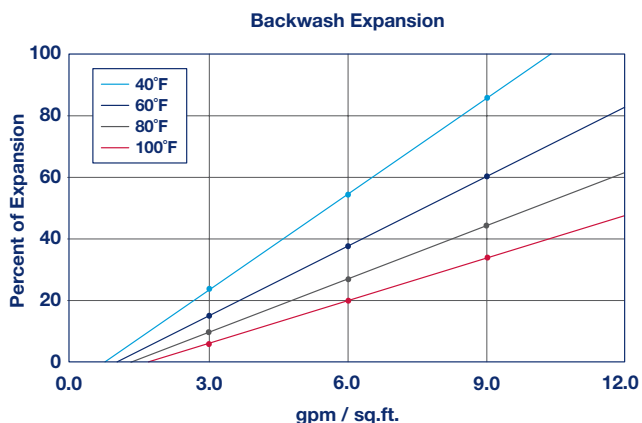
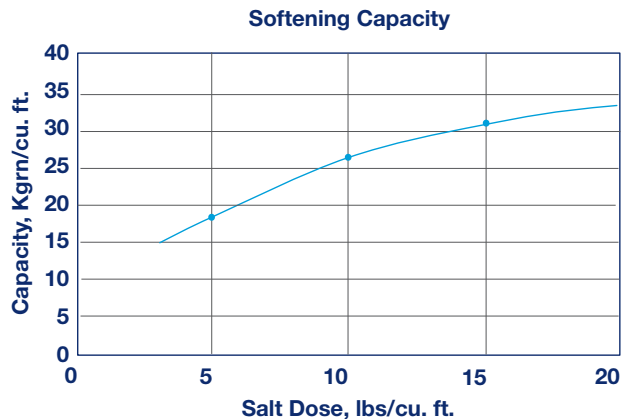
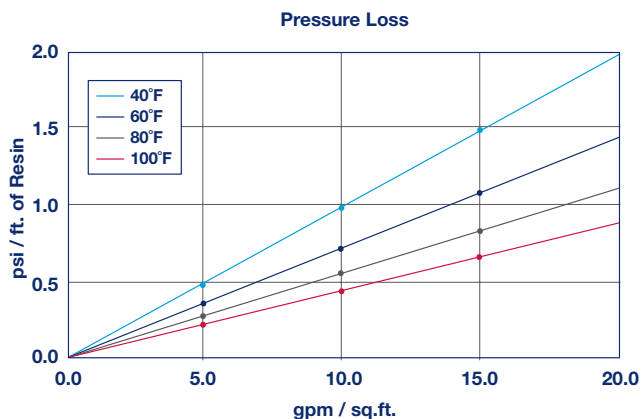


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CG10-C

STRONG ACID CATION

**COARSE MESH GRADE
POLYSTYRENIC GEL
10% CROSSLINKED
SODIUM FORM**



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.

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	
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

HIGH FLOW RATE USE

CG10-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 exchange is somewhat slower due to the large bead size and that CG10-C is intended for polishing rather than bulk ion removal.

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