PRODUCT SPECIFICATION SHEET

MAGNA

CG10

STRONG ACID CATION

POLYSTYRENIC GEL
10% CROSSLINKED
SODIUM FORM

ResinTech CG10 is a premium grade strong acid cation resin in sodium form. It is amber in color and made from a 10% cross-linked gel. CG10 offers high resistance to physical, thermal, and chemical degradation. It is indicated for all industrial applications where the importance of durability and high capacity outweigh the higher amounts of chemical needed for regeneration compared to lower cross-linked cation resins.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Softening - High Temperature

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Sodium
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.6
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	53 - 55 lbs/ft³ (849 - 881 g/L)
Color	Amber
Regenerability	Yes

CERTIFICATIONS

- Kosher Certified
- Halal Certified
- FDA Compliance*

* Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

Revision 1.1
ResinTech, Inc.®

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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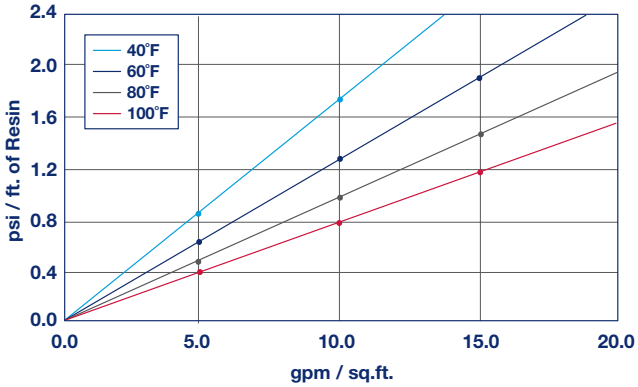
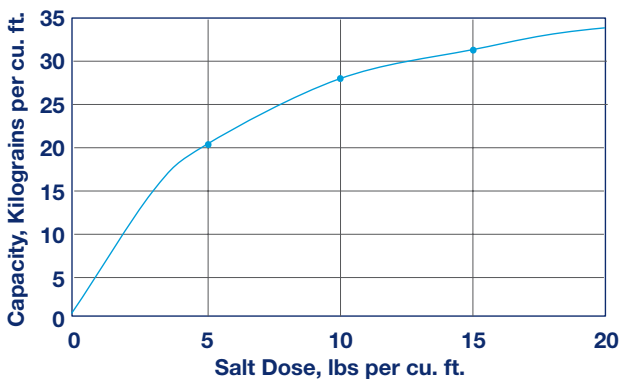
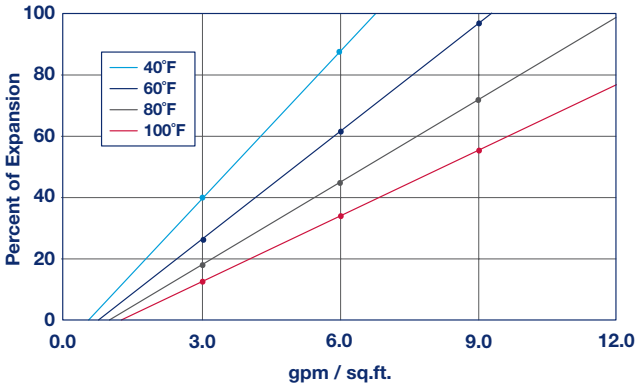
Pressure Loss



Softening Capacity



Backwash Expansion



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 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.

HIGH TEMPERATURE USE

ResinTech CG10 is suitable for operation at temperatures as high as 280˚F. At temperatures above 212˚F, dissolved oxygen in the feedwater is a powerful oxidant and can chemically damage the resin. Oxygen levels in the feed should be reduced to less than 0.05 ppm to ensure a reasonable service life of the resin.

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	
Hydrogen cycle	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H_2SO_4
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

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