PRODUCT SPECIFICATION SHEET

MAGNA

CGS

STRONG ACID CATION

RESIDENTIAL SOFTENING
POLYSTYRENIC GEL
SODIUM FORM

ResinTech CGS is a residential grade strong acid cation resin in sodium form. It is amber in color and made from standard cross-linked gel. CGS is Gold Seal Certified by the WQA for potable water applications. It is optimized for regeneration efficiency and high capacity. CGS is intended for residential water softening of waters that do not contain significant chlorine residual and where potable water certification is required.

APPLICATIONS

- Softening - Residential

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	90%
Uniformity Coefficient	1.6
Reversible Swelling	Na to Ca -5% to -3%
Temp Limit	250°F (121°C)
Capacity (meq/mL)	1.9
Moisture Retention	40% to 52%
Shipping Weight	49 - 51 lbs/ft³ (785 - 817 g/L)
Color	Amber
Regenerability	Yes

CERTIFICATIONS

- WQA Gold Seal*
- Kosher Certified
- Halal Certified
- FDA Compliance**

* NSF/ANSI/CAN 61: Drinking Water System Components - Health Effects
** Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

PACKAGING OPTIONS

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

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INNOVATIONS IN ION EXCHANGE

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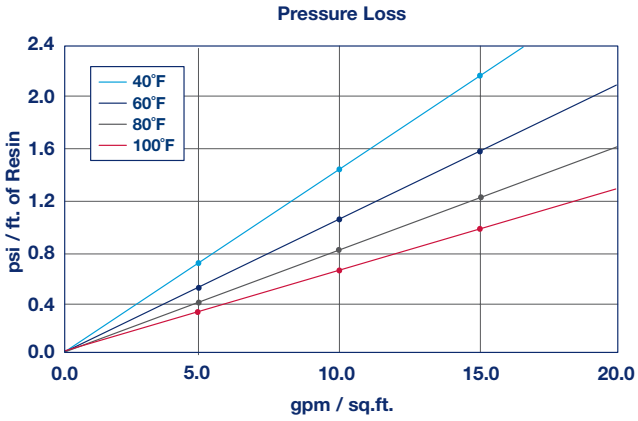
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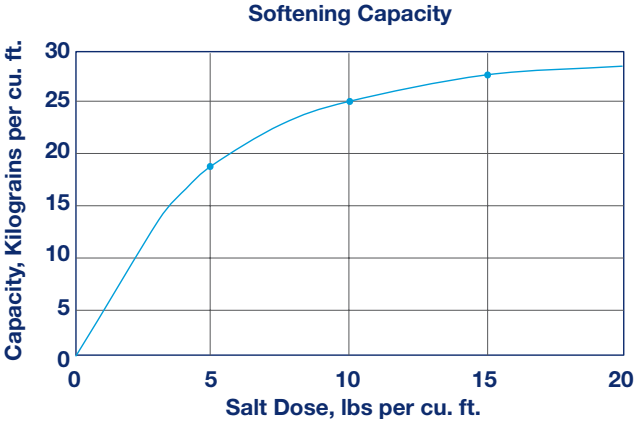
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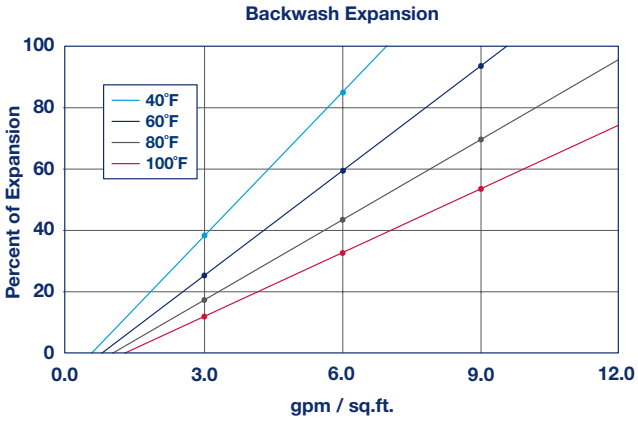
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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

SOFTENING

CGS is a standard crosslinked cation resin optimized for residential and commercial applications. This type of resin is easier to regenerate than the higher crosslinked resins. CGS has marginal resistance to chlorine and other oxidants and is not ideal for high temperature and other high stress applications.

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature Sodium form	250˚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

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