

PRODUCT SPECIFICATION SHEET

MAGNA CG8-HP

STRONG ACID CATION

HIGH-PURITY GRADE
POLYSTYRENIC GEL
8% CROSSLINKED
SODIUM FORM

ResinTech CG8-HP high purity strong acid cation resin in sodium form. It is amber in color and made from a 10% cross-linked gel. The HP (high purity) designation means it is Gold Seal Certified by the WQA for use in potable water applications. CG8-HP is intended for softening and other salt form applications that require potable water certification.

APPLICATIONS

- Softening - Municipal
- Radium Removal
- 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	98%
Uniformity Coefficient	1.6
Reversible Swelling	Na to H 5% to 9%
Temp Limit	280°F (138°C)
Capacity (meq/mL)	2.0
Moisture Retention	42% to 49%
Shipping Weight	51 - 53 lbs/ft ³ (817 - 849 g/L)
Color	Amber
Regenerability	Yes

DISTRIBUTED BY
APACHE CHEMICALS, CORP., LLC.
WWW.APACHECHEMICALS.COM

CERTIFICATIONS

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

* Meets NSF/ANSI-61 Standards for Material Safety

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

Revision 1.1

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PACKAGING OPTIONS

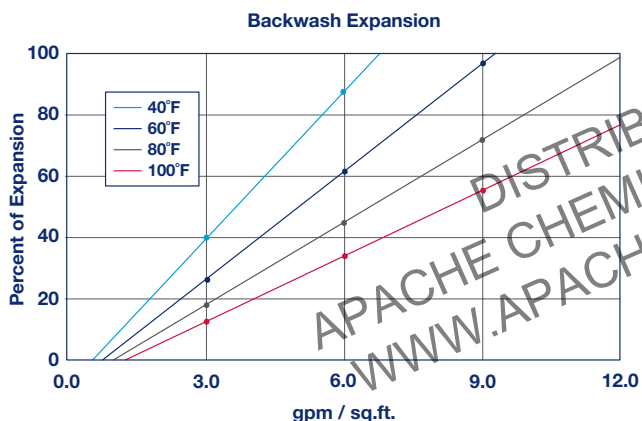
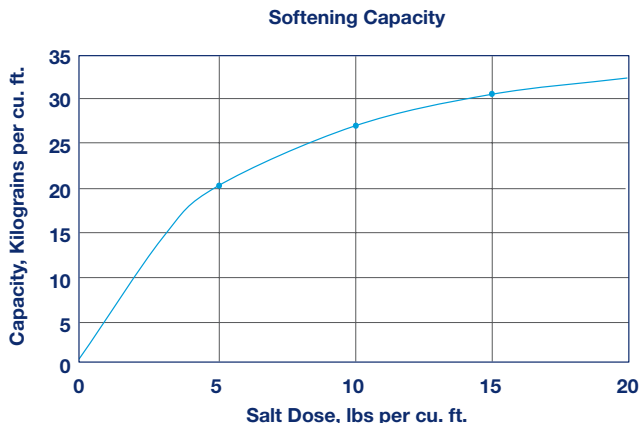
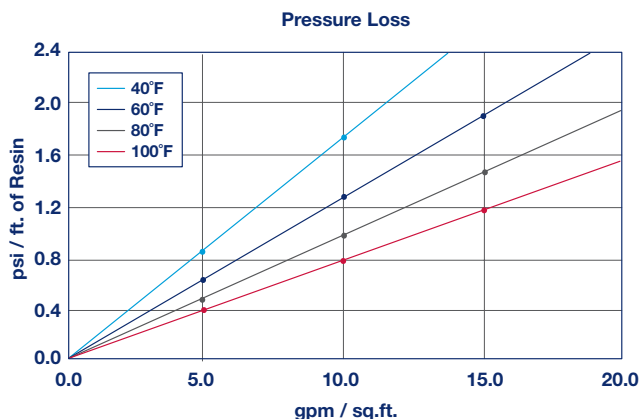
- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks



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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	
Hydrogen cycle	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H ₂ SO 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

IRON REMOVAL

CG8-HP 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

CG8-HP 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.

Revision 1.0
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