

PRODUCT SPECIFICATION SHEET

MAGNA WACG

WEAK ACID CATION

ACRYLIC GEL
HYDROGEN FORM

ResinTech WACG is a hydrogen form gel weak acid cation resin. It has exceptionally high capacity and can be regenerated at close to 100% acid efficiency but is limited to use in alkaline waters with pH greater than 7. WACG is intended for hardness removal from waters that contain significant alkalinity and for demineralization where the use of a weak acid cation resin is required.

APPLICATIONS

- Partial Softening
- Partial Alkalinity Removal
- Metal Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Acrylic Gel
Ionic Form	Hydrogen
Functional Group	Carboxylic Acid
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.7
Reversible Swelling	H to Na 80% to 100%
Temp Limit	212°F (100°C)
Capacity (meq/mL)	4.2
Moisture Retention	43% to 60%
Shipping Weight	47 - 49 lbs/ft ³ (753 - 785 g/L)
Color	White to Cream
Regenerability	Yes

CERTIFICATIONS

- Halal Certified
- Kosher Certified
- FDA Compliance*

* 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

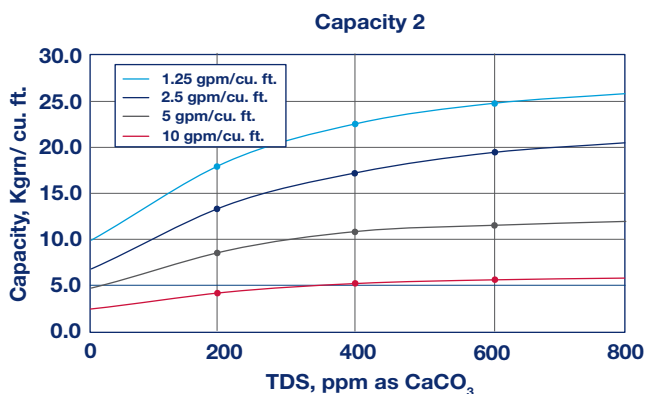
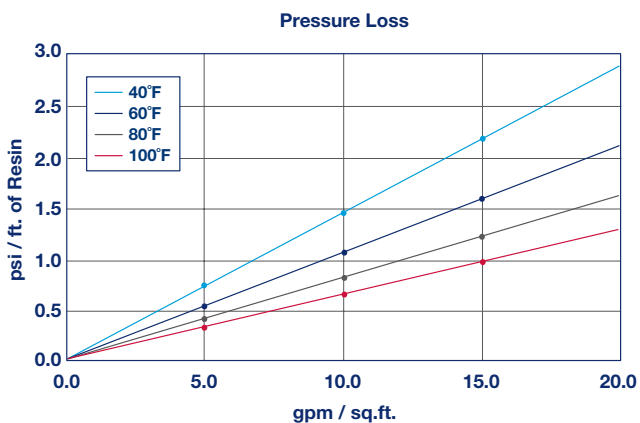
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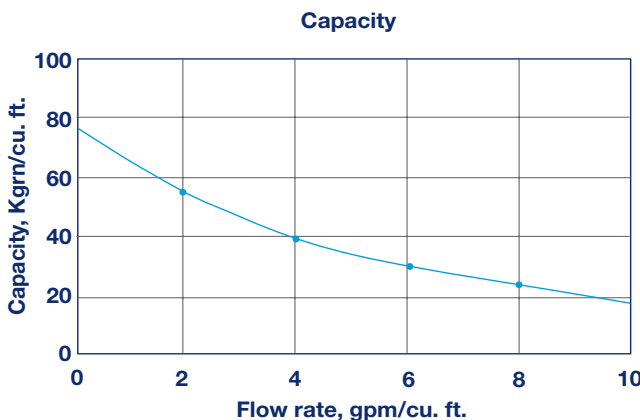
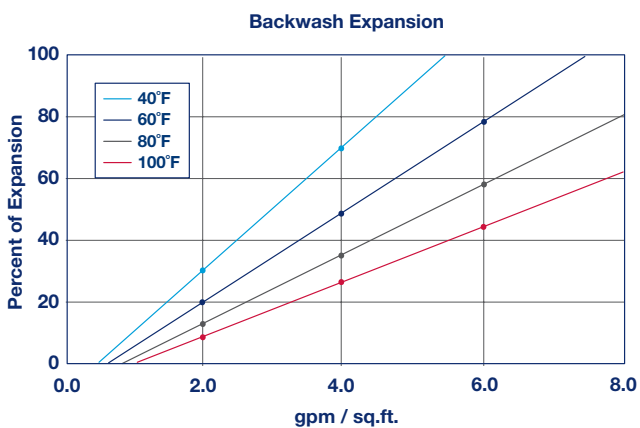
MAGNA WACG

STRONG ACID CATION

ACRYLIC GEL
HYDROGEN FORM



Caes 2: For alkalinity when alkalinity exceed hardness; for hardness when hardness exceeds alkalinity.



Caes 1: For Hardness when alkalinity exceed hardness; for alkalinity when hardness exceeds alkalinity.

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SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	212°F
Hydrogen form	
Minimum bed depth	30 inches
Backwash expansion	25 to 50 percent
Minimum operating pH	>5 SU
Regenerant Concentration	
Hydrogen cycle	1 to 5 percent HCl
Hydrogen cycle	0.7 to 8 percent H ₂ SO ₄ *
Regenerant level	Approx 120% of theoretical
Regenerant flow rate	0.3 to 1.5 gpm/cu.ft.
Regenerant contact time	>30 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 5 gpm/cu.ft.

* Precipitation of calcium sulfate can occur at sulfuric acid concentrations above 1% when the resin is exhausted on hard water.

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

