

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

### CERTIFICATIONS

- Halal Certified
- Kosher Certified

### PACKAGING OPTIONS

- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

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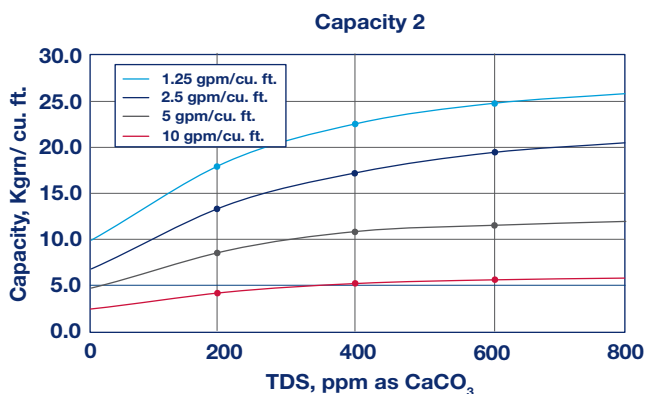
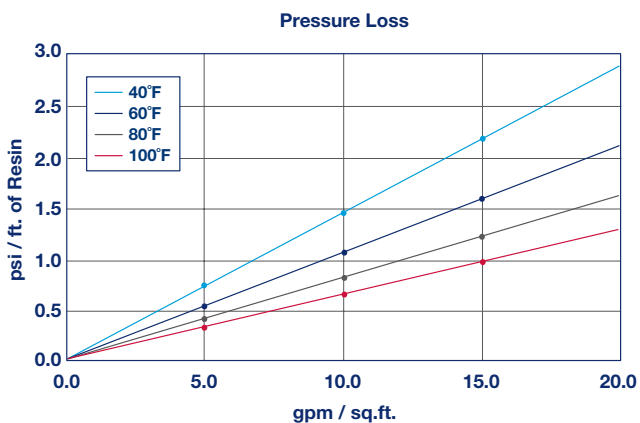


# MAGNA

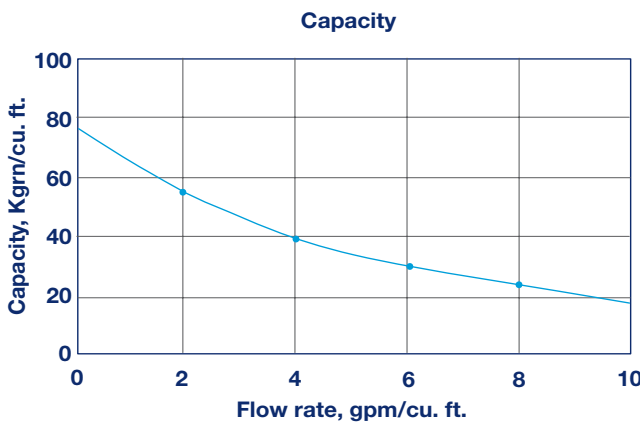
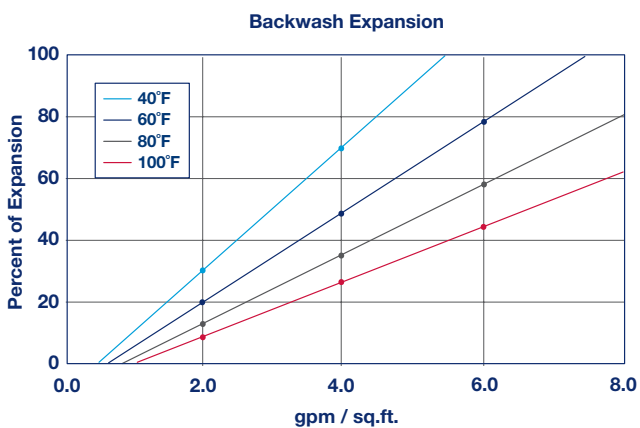
## WACG

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 <sub>2</sub> SO <sub>4</sub> *
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

