

# PRODUCT SPECIFICATION SHEET

# MAGNA

## WACG-Na

WEAK ACID CATION

ACRYLIC GEL  
SODIUM FORM

ResinTech WACG-Na is a sodium form gel weak acid cation resin. It is fully converted into sodium form to take advantage of weak acid cation resin ion exchange properties. WACG-Na is intended for use in high TDS softening and for metal removal in waste treatment applications.

### APPLICATIONS

- Heavy Metals Removal
- High TDS Softening

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Acrylic Gel
<b>Ionic Form</b>	Sodium
<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>	90%
<b>Uniformity Coefficient</b>	1.7
<b>Reversible Swelling</b>	H to Na 80% to 100%
<b>Temp Limit</b>	180°F (82°C)
<b>Capacity (meq/mL)</b>	2.0
<b>Moisture Retention</b>	43% to 60% H form
<b>Shipping Weight</b>	48 - 50 lbs/ft <sup>3</sup> (769 - 801 g/L)
<b>Color</b>	White to Cream
<b>Regenerability</b>	Yes

### 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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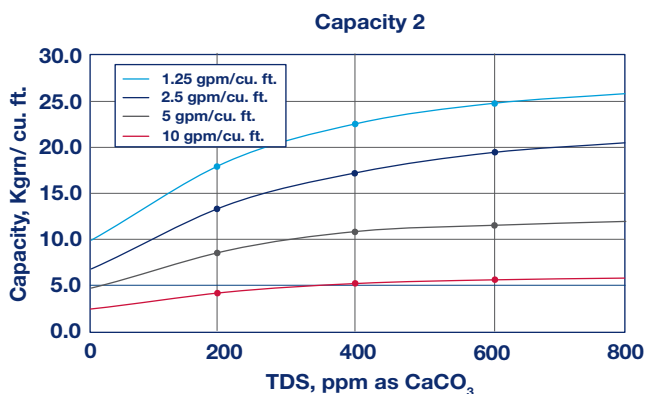
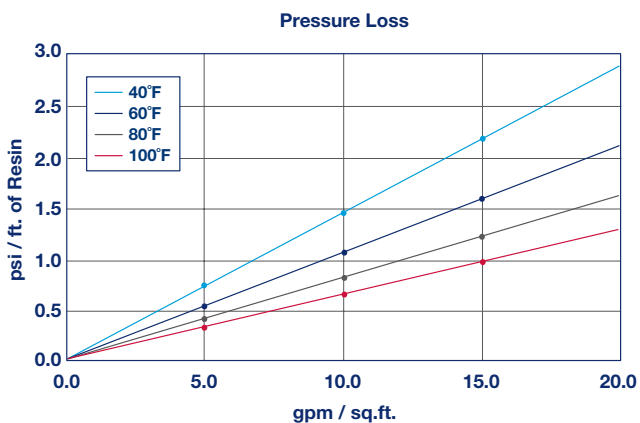


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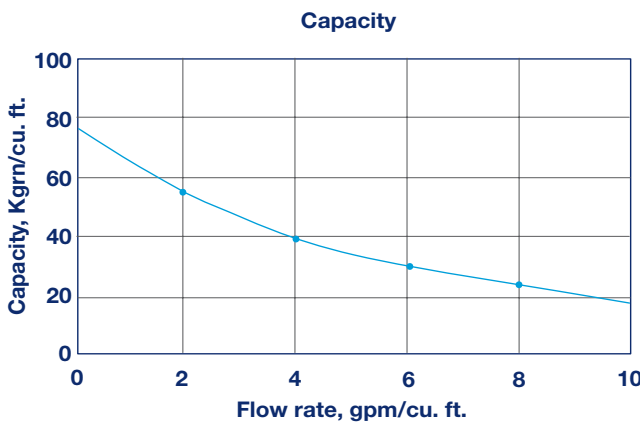
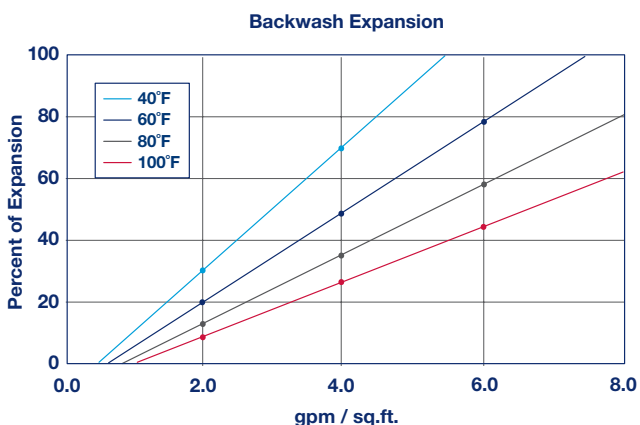
## WACG-Na

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	180°F
Sodium 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

