

# 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>                        | 46 - 48 lbs/ft <sup>3</sup> (737 - 769 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

Revision 1.0  
© 2020 ResinTech, Inc.

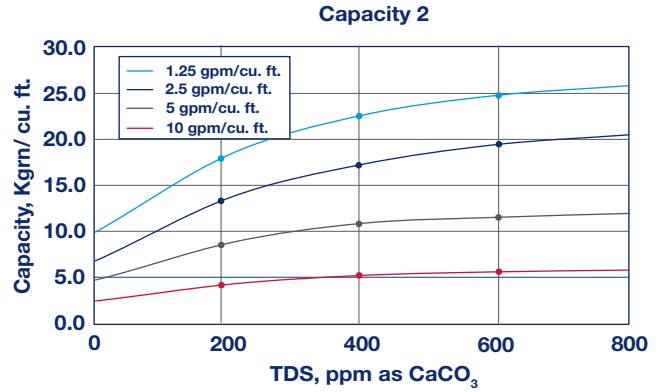
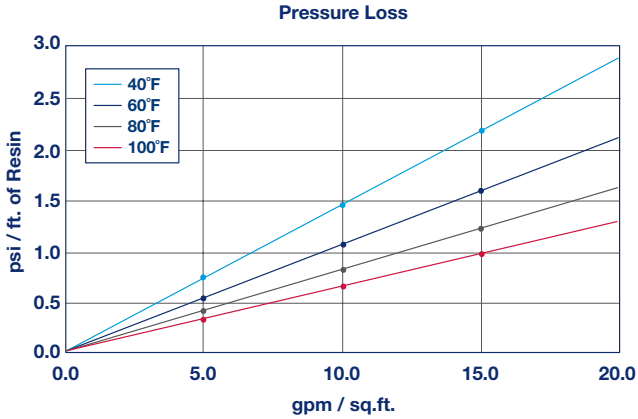


# MAGNA

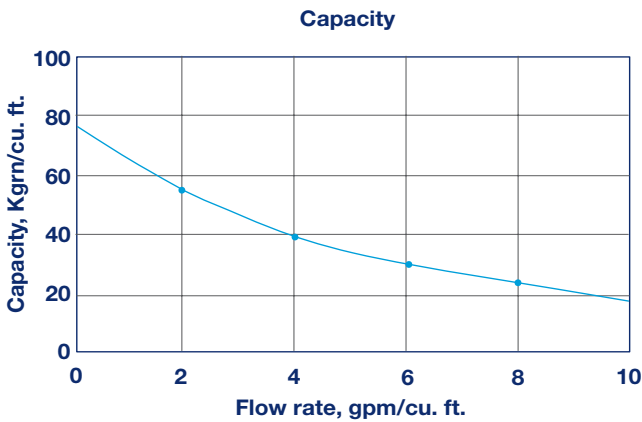
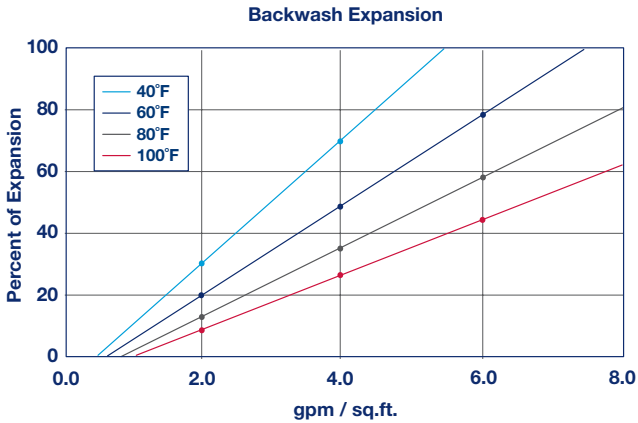
## WACG-Na

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.

Revision 1.0  
© 2020 ResinTech, Inc.

### SUGGESTED OPERATING CONDITIONS

|                                |   |
|--------------------------------|---|
| Maximum continuous temperature | 180°F   |
| Sodium form                    | 30 inches                                       |
| Minimum bed depth              | 25 to 50 percent                                |
| Backwash expansion             | >5 SU   |
| Minimum operating pH           | 1 to 5 percent HCl                              |
| Regenerant Concentration       | 0.8 to 8 percent H <sub>2</sub> SO <sub>4</sub> |
| Hydrogen cycle                 | Approx 120% of theoretical                      |
| Hydrogen cycle                 | 0.3 to 1.5 gpm/cu.ft.                           |
| Regenerant level               | >30 minutes                                     |
| Regenerant flow rate           | Same as dilution water                          |
| Regenerant contact time        | 10 to 15 gallons/cu.ft.                         |
| Displacement flow rate         | Same as service flow                            |
| Displacement volume            | 35 to 60 gallons/cu.ft.                         |
| Rinse flow rate                | 1 to 5 gpm/cu.ft.                               |
| Rinse volume                   |   |
| Service flow rate              |   |

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

