

# PRODUCT SPECIFICATION SHEET

## MAGNA CGS-BL

STRONG ACID CATION

RESIDENTIAL SOFTENING  
BLACK POLYSTYRENIC GEL  
SODIUM FORM

ResinTech CGS-BL is a residential grade, dark-colored strong acid cation resin made from standard cross-linked gel in sodium form. CGS-BL is Gold Seal Certified by the WQA for use in potable water. It is optimized for regeneration efficiency and high capacity. CGS-BL is intended for residential water softening of waters that do not contain significant chlorine residual and where potable water certification is required.

### APPLICATIONS

- Softening - Residential

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Styrenic Gel
<b>Ionic Form</b>	Sodium
<b>Functional Group</b>	Sulfonic 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>	1.6
<b>Reversible Swelling</b>	Na to Ca -5% to -3%
<b>Temp Limit</b>	250°F (121°C)
<b>Capacity (meq/mL)</b>	1.9
<b>Moisture Retention</b>	40% to 52%
<b>Shipping Weight</b>	49 - 51 lbs/ft <sup>3</sup> (785 - 817 g/L)
<b>Color</b>	Dark Brown to Black
<b>Regenerability</b>	Yes

### CERTIFICATIONS

- WQA Gold Seal
- Kosher Certified



C US

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### 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

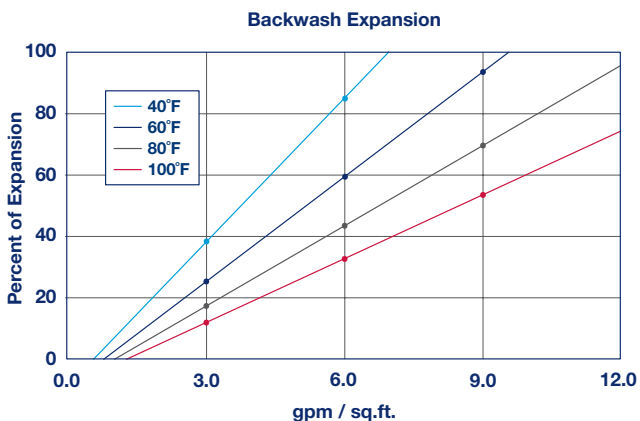
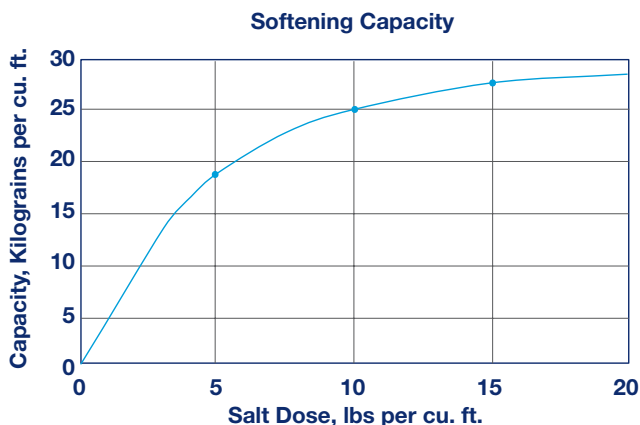
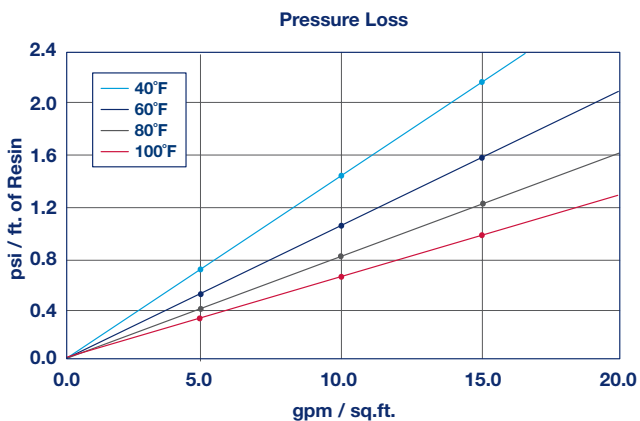


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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	250°F
Sodium form	250°F
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	
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

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