

# PRODUCT SPECIFICATION SHEET

# MAGNA CNS

STRONG ACID CATION

**NON-SOLVENT  
RESIDENTIAL SOFTENING  
POLYSTYRENIC GEL  
SODIUM FORM**

ResinTech CNS is a solvent free premium grade dark colored sodium form strong acid cation resin made by ResinTech in Camden, NJ. CNS is Gold Seal Certified by the WQA for potable water applications. CNS 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>Temp Limit</b>	250°F (121°C)
<b>Capacity (meq/mL)</b>	1.8
<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>	Black
<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

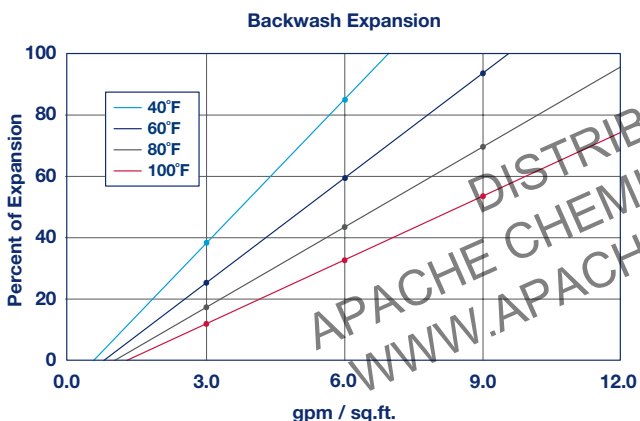
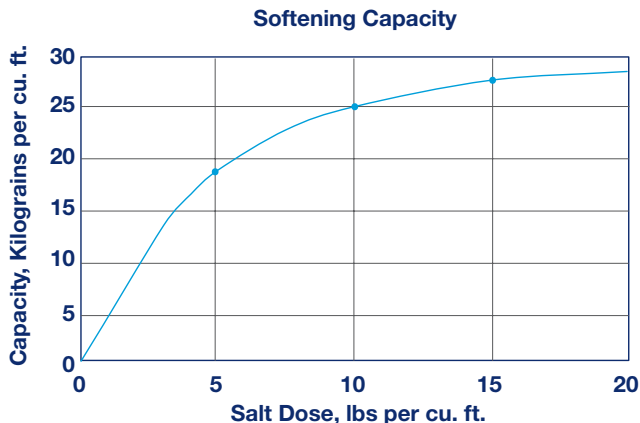
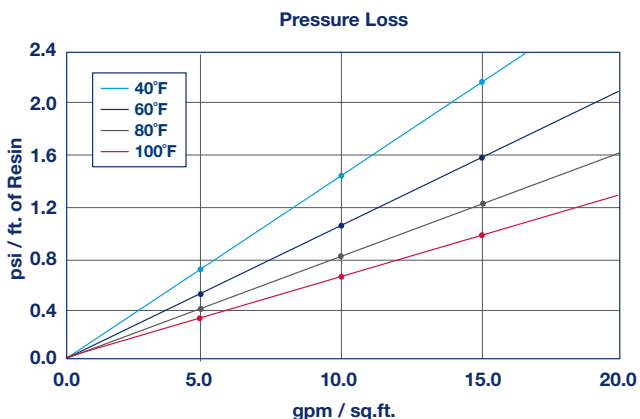
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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO<sub>3</sub>, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been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

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	250°F
Sodium form	
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

### SOFTENING

CNS is a standard crosslinked cation resin optimized for residential and commercial applications. This type of resin is easier to regenerate than the higher crosslinked resins. CNS has marginal resistance to chlorine and other oxidants and is not ideal for high temperature and other high stress applications.

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