

CNS *Strong Acid Cation*

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

NON-SOLVENT RESIDENTIAL SOFTENING POLYSTYRENIC GEL SODIUM FORM

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

Polymer Matrix	Styrenic Gel
Ionic Form	Sodium
Fuctional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	90%
Uniformity Coefficient	1.6
Temp Limit	250°F (121°C)
Capacity (meq/mL)	1.8
Moisture Retention	40% to 52%
Shipping Weight	49 - 51 lbs/ft ³ (785 - 817 g/L)
Color	Black
Regenerability	Yes

CERTIFICATIONS

WQA Gold Seal



C US



PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks



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*Products for
Quality Water*



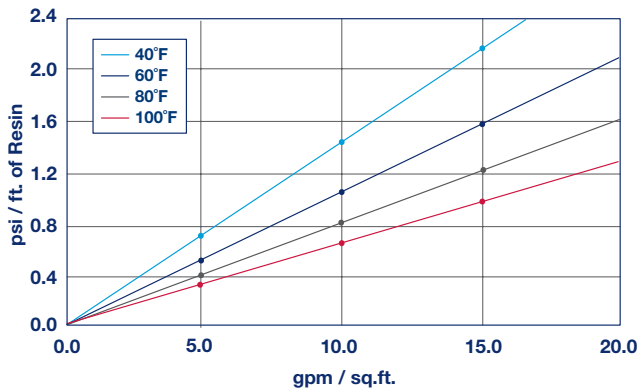
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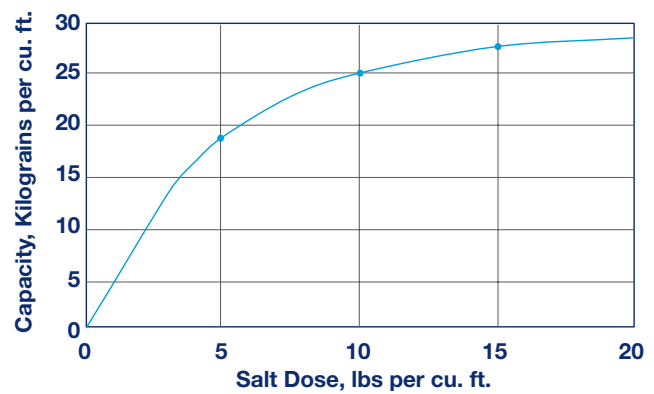
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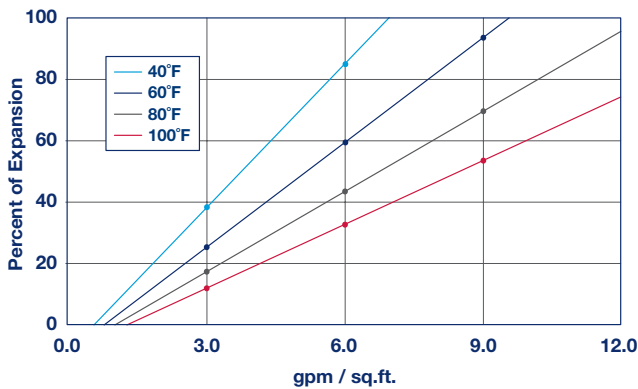
Pressure Loss



Softening Capacity



Backwash Expansion



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 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.

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.

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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