PRODUCT SPECIFICATION SHEET

MAGNA

CN8

STRONG ACID CATION

NON-SOLVENT
POLYSTYRENIC GEL
8% CROSSLINKED
SODIUM FORM

ResinTech CN8 is a solvent free premium grade dark colored sodium form 8% crosslinked gel strong acid cation resin made by ResinTech in Camden, NJ. It is a workhorse cation resin optimized for commercial, industrial, and residential softening applications. CN8 is Gold Seal Certified by the WQA for potable water applications. It is intended for both potable water and industrial uses.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Iron Removal
- Ammonia Removal

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TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Sodium
Functional 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
Reversible Swelling	Na to H 5% to 9%
Temp Limit	280°F (138°C)
Capacity (meq/mL)	2.0
Moisture Retention	42% to 49%
Shipping Weight	50 - 52 lbs/ft³ (801 - 833 g/L)
Color	Black
Regenerability	Yes

CERTIFICATIONS

WQA Gold Seal*

* Meets standards:
NSF/ANSI 44: Residential Cation Exchange Water Softeners
NSF/ANSI-61: Drinking Water System Components - Health Effects
NSF/ANSI/CAN 372: Drinking Water System Components - Lead Content

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

MADE IN AMERICA

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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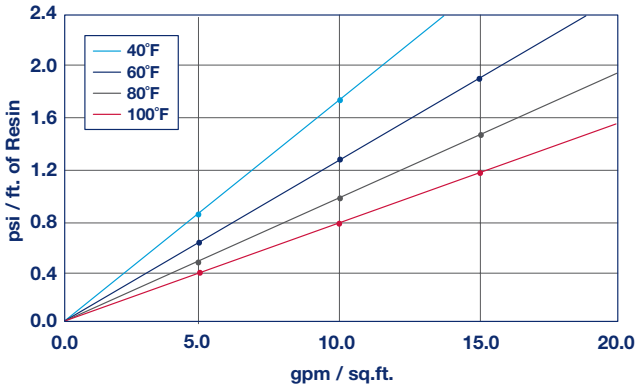
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Pressure Loss

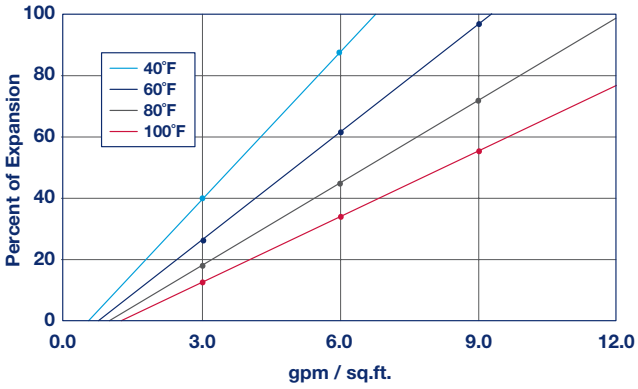


Softening Capacity



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 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.

Backwash Expansion



SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Sodium form	280˚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	
Hydrogen cycle	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H_2SO_4
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

IRON REMOVAL

CN8 has good capacity for ferrous iron. Iron content in the feedwater should not be more than 1 mg/L Fe per each 17 mg/L of hardness.

AMMONIA REMOVAL

CN8 is slightly selective for ammonia compared to sodium but hardness is much more preferred. Ammonia is not ionized at pH above 9 and is not well removed when the pH is significantly alkaline.

Revision 1.1
ResinTech, Inc.®

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