CN8

Grade: Standard

Non-solvent strong acid cation resin, styrene/DVB 8% crosslinked gel, 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.

FEATURES & BENEFITS

- Non-solvent sulfonated
- Industrial / commercial / residential softening
- Low color throw
- Complies with Us fds regulations

APPLICATIONS

- Ammonia Removal
- Iron Removal
- Softening

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	90
Reversible Swelling	5 to 9% (Na → H)
Capacity (meq/mL)	2.00
Moisture Retention (%)	42 to 49
Shipping Weight	51 - 53 lbs/cu.ft. (817 - 849 g/L)
Color	Black
Regenerable	Regenerable

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 - 50
Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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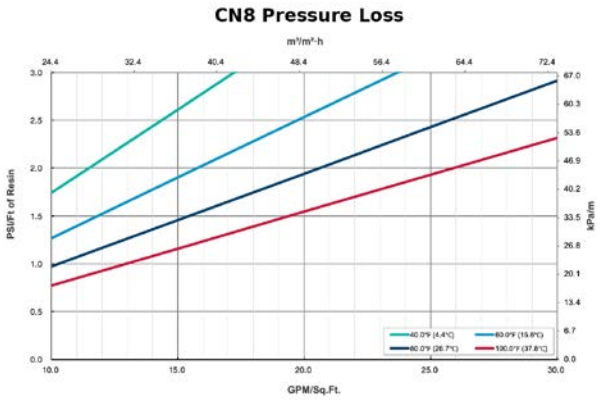
REGENERATION DETAILS

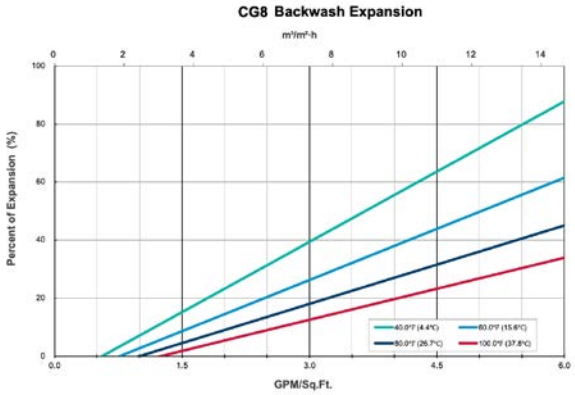
Salt Cycle (NaCl)	10% - 15%	Regenerant Contact Time	> 20 minutes
Hydrogen Cycle (H2SO4)	1% - 8%	Displacement Flow Rate	Same as dilution water
Hydrogen Cycle (HCl)	5% - 10%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Rinse Flow Rate	Same as service flow
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PRESSURE LOSS



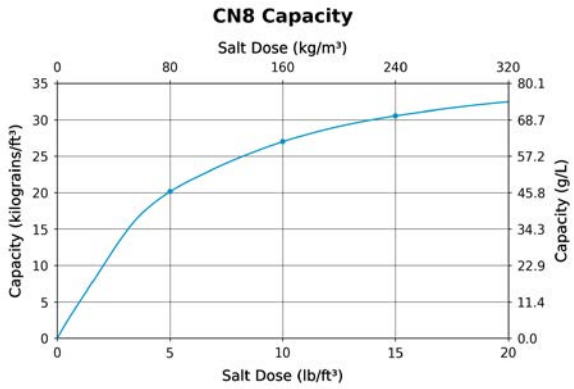
The graph above shows the expected pressure loss of ResinTech CN8 per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CN8 as a function of flow rate at various temperatures.

CAPACITY



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.

IRON REMOVAL

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

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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.

CERTIFICATIONS

Solvent-Free
Meets NSF/ANSI/CAN 44
Meets NSF/ANSI/CAN 61
Meets NSF/ANSI/CAN 372
REACH Registered

PACKAGING

Standard

1 cu.ft. Bag | 42 cu.ft. Supersack
1000L Supersack | 25L Bag

Metric

5 cu.ft. Drum | 7 cu.ft. Drum
140L Drum | 200L Drum

Shipping Weight

51 - 53 lbs/cu.ft. (817 - 849 g/L)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

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