CN8-C

Strong acid cation resin, coarse mesh styrene/DVB 8% crosslinked gel, sodium form

ResinTech CG8-C is a non-solvent dark brown or black colored coarse mesh strong acid cation resin in sodium form made with an 8% crosslinked gel. It offers faster kinetics and improved regeneration efficiency compared to similar resins with larger beads. CG8-C is intended for industrial softening applications that have high levels of iron in the feedwater, where resin bed depth is less than ideal, and for applications that challenge the kinetic limits of larger size resins.

APPLICATIONS

- High Flow Rate
- Softening

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

REACH Registered
Kosher Certified
Halal Certified

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

ResinTech Inc.
INNOVATIONS IN ION EXCHANGE

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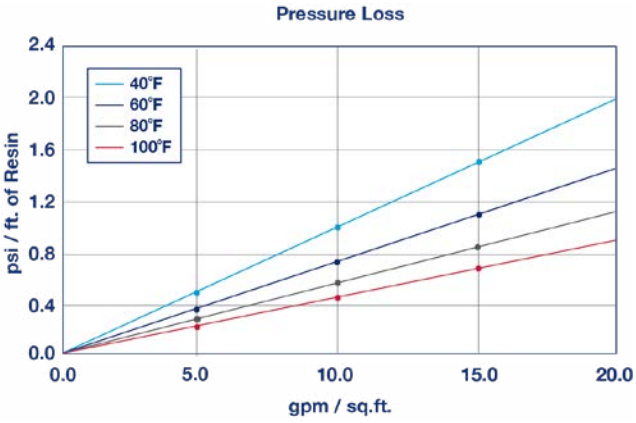
CN8-C

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Minimum Sphericity (%)	90

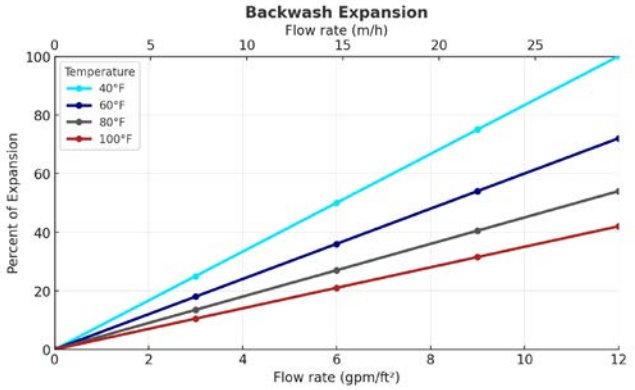
Reversible Swelling	5 to 9% (Na → H)
Uniformity	Gaussian
Uniformity Coefficient	1.40
Capacity (meq/mL)	2.00
Moisture Retention (%)	42 to 49
Color	Black
Regenerable	Regenerable

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech CN8-C 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-C as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Backwash Expansion (%)	25 - 50

Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

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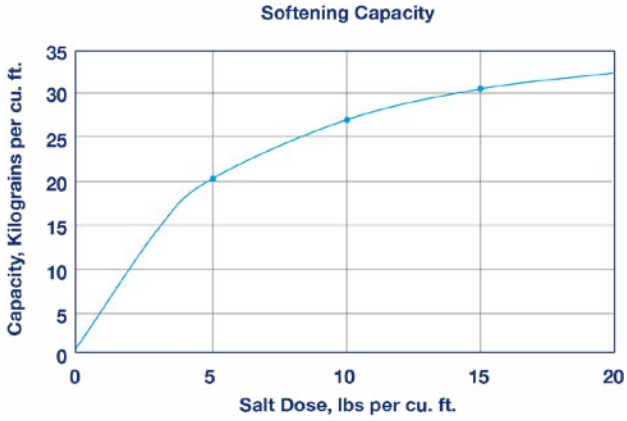
CAPACITY GRAPH 1



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.

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)

SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) 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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