CNS-F

Grade: Standard

Non-solvent strong acid cation resin, styrene/DVB standard crosslinked gel, fine mesh, sodium form

ResinTech CNS-F is a fine mesh, non-solvent, strong acid cation resin in sodium form. It is Black in color and made from standard crosslinked gel. CNS-F is Gold Seal Certified by the WQA for potable water applications. CNS-F is intended for residential softening applications with high levels of iron in the feedwater, that do not contain significant chlorine residual, and where resin bed depth is less than ideal.

APPLICATIONS

- 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	30-70 US mesh (210-595µm)
< 50 mesh (300 µm) %	< 2% (minus 70 mesh)
< 70 mesh (210 µm) %	< 2%
Minimum Sphericity (%)	90
Reversible Swelling	4 to 8% (Na → H)
Capacity (meq/mL)	1.80
Moisture Retention (%)	40 to 52
Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
Color	Black
Regenerable	Regenerable

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	250°F (121°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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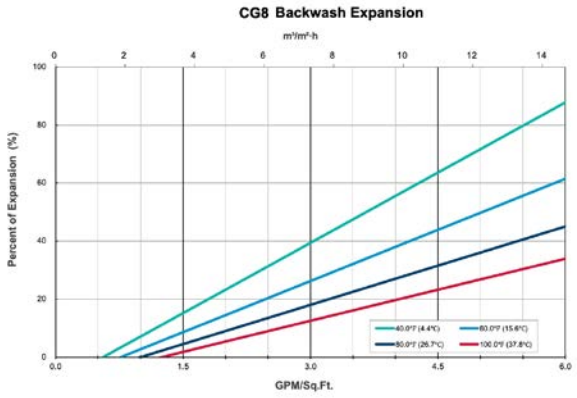
REGENERATION DETAILS

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

BACKWASH EXPANSION



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

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

49 - 51 lbs/cu.ft. (785 - 817 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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