

CNS-F

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



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

REACH Registered
 Kosher Certified
 Halal Certified

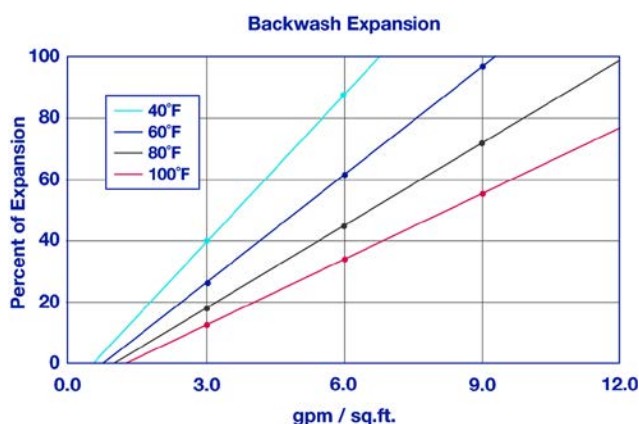
Conforms to §21CFR173.25 of the USFDA Food Additives Regulations



CNS-F

Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	90
Polymer Type	Gel	Reversible Swelling	4 to 8% (Na → H)
Ionic Form (as shipped)	Sodium (Na ⁺)	Uniformity	Gaussian
Functional Group	Sulfonic Acid	Uniformity Coefficient	1.60
Physical Form	Spherical Beads	Capacity (meq/mL)	1.80
Particle Size US Mesh (µm)	30 (595) to 70 (210)	Moisture Retention (%)	40 to 52
< 50 mesh (300 µm) %	< 2% (minus 70 mesh)	Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
< 70 mesh (210 µm) %	< 2%	Color	Black
		Regenerable	Regenerable

BACKWASH EXPANSION



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

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	250°F (121°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 - 50		

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)



PACKAGING**Standard**

1 cu.ft. Bag | 42 cu.ft. Supersack
5 cu.ft. Drum | 7 cu.ft. Drum

Metric

140L Drum | 200L Drum

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](https://www.resintech.com)

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Last Update: 09-Apr-26

