

CN8-F-K

Strong acid cation resin, styrene/DVB 8% crosslinked gel, fine mesh, potassium form

ResinTech CN8-F-K is a black 8% crosslinked gel strong acid fine mesh cation resin in the potassium form. It has a capacity and other characteristics similar to other products in the CN8 family. CN8-F-K can be used interchangeably with sodium form CN8-F. It is intended for use in water softening and other neutral salt cation exchange applications where the release of sodium ions is undesirable.



FEATURES & BENEFITS

- Potassium form
- Low color throw
- Superior physical stability
- Complies with US FDA regulations
- Made in the USA

APPLICATIONS

- Iron Removal
- Sodium Removal
- Softening



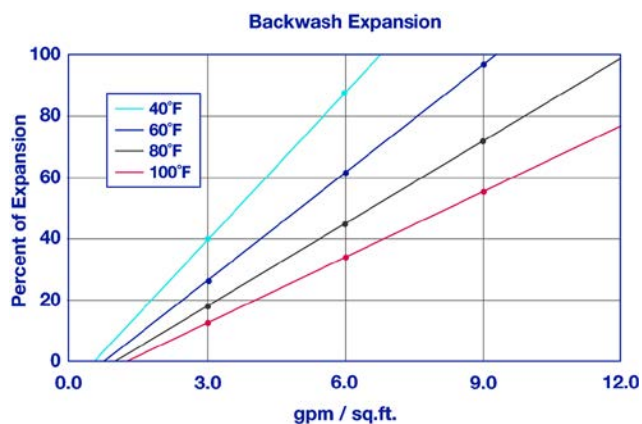
REACH Registered

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

CN8-F-K

Polymer Matrix	Styrene/DVB	Reversible Swelling	3 to 5% (K → Na)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Potassium (K)	Uniformity Coefficient	1.40
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.00
Physical Form	Spherical Beads	Moisture Retention (%)	35 to 45
Particle Size US Mesh (µm)	30 (595) to 50 (297)	Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
< 50 mesh (300 µm) %	< 1%	Color	Dark Brown to Black
Minimum Sphericity (%)	93	Regenerable	Regenerable

BACKWASH EXPANSION



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

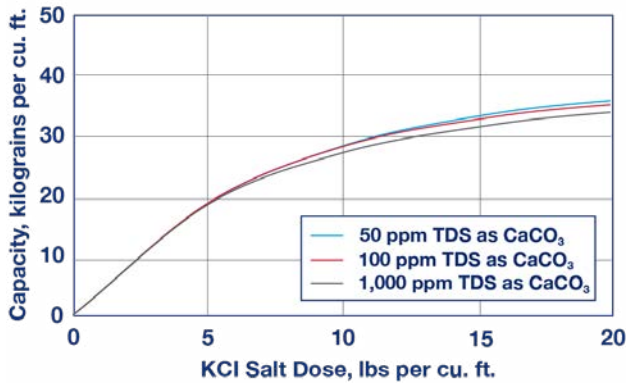
SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°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 to 50		



CAPACITY GRAPH 1

CG8-K Potassium Form Capacity

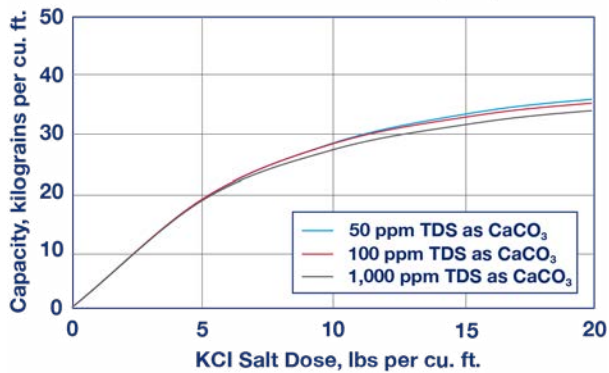


Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

POTASSIUM FORM SOFTENING

ResinTech **CN8-F-K** is supplied in the potassium rather than the sodium form. Potassium form resins are regenerated with potassium chloride rather than sodium chloride. **CN8-F-K** produces softened water with reduced sodium content. Except for the use of a different salt, the capacity and other operating characteristics are virtually identical to sodium form softening.

CG8-K Potassium Form Capacity

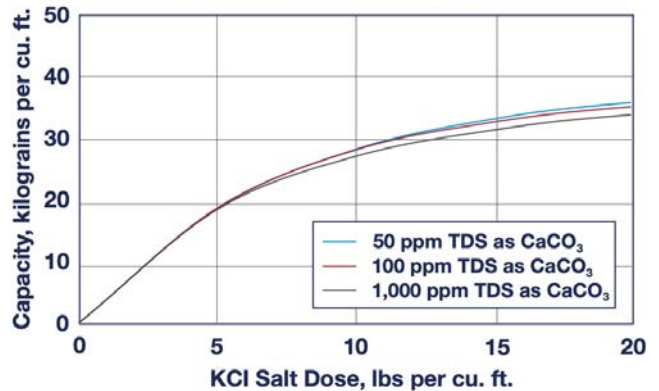


Capacity based on 500 ppm of stated salt (as CaCO₃) with 0% alkalinity, 36 in. bed depth, flow rate of 2 to 4 gpm per cu. ft. and >30 min. chemical injection time. Sulfuric acid concentration must be stepwise when calcium concentration exceeds 20% of total cations. No engineering downgrade has been applied.

SODIUM REMOVAL

Potassium form resins such as ResinTech **CN8-F-K** have substantial capacity to remove sodium as well as hardness. The resin prefers hardness over sodium so it is possible to dump sodium if the resin is operated past sodium breakthrough.

CG8-K Potassium Form Capacity



REGENERATION DETAILS

Salt Cycle (NaCl)	10 to 15% KCl	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

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

Metric

140L Drum | 200L Drum

Minimum Order Volume: 210 (cu.ft.)

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

