

CN8-H

Strong acid cation resin, styrene/DVB 8% crosslinked gel, hydrogen form

ResinTech CN8-H is a non-solvent strong acid cation resin in the hydrogen form. It is dark-colored and made using 8% crosslinked gel. CN8-H is a workhorse cation resin optimized for industrial applications like demineralization that require good regeneration efficiency and oxidative stability or where a hydrogen form cation resin is required. It is also recommended for mixed beds when visual identification of the cation is required.



FEATURES & BENEFITS

- Residential softening applications
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

- High Purity DI Water
- Mixed Bed Components



Solvent-Free

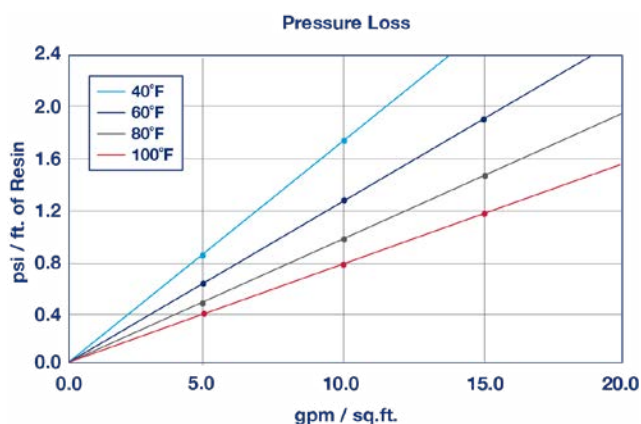
REACH Registered

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

CN8-H

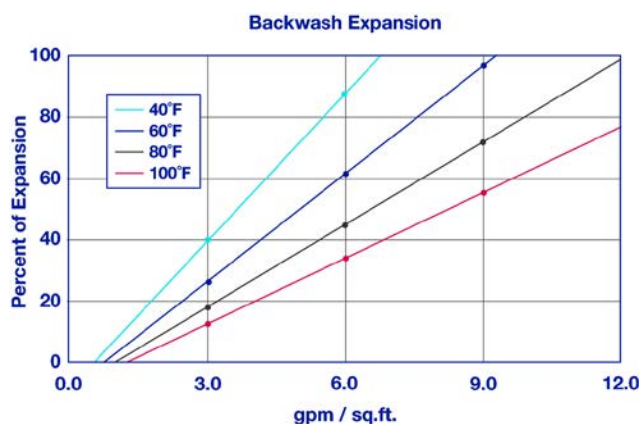
Polymer Matrix	Styrene/DVB	Reversible Swelling	5 to 9% (Na → H)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Hydrogen (H ⁺)	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	1.80
Physical Form	Spherical Beads	Moisture Retention (%)	47 to 56
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
< 50 mesh (300 µm) %	< 1%	Color	Black
Minimum Sphericity (%)	90	Regenerable	Regenerable

PRESSURE LOSS



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

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	265°F (129°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

Hydrogen Cycle (H ₂ SO ₄)	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)
Regenerant Contact Time	> 20 minutes		



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

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