# CN8-H

Grade: Standard

## 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

### PHYSICAL PROPERTIES

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

### SUGGESTED OPERATING CONDITIONS

| | |
|---|---|
| Maximum Temperature | 265°F (129°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



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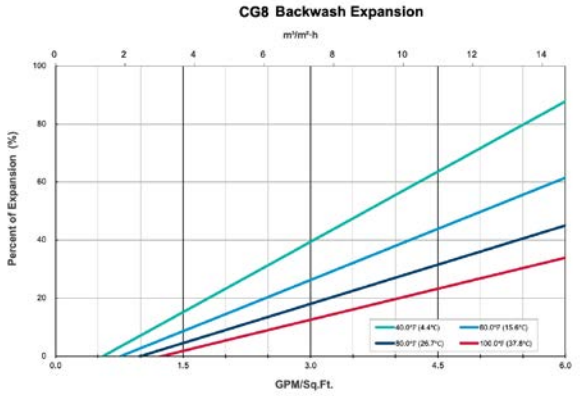
## REGENERATION DETAILS

| | | | |
|---|---|---|---|
| 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) |
| Regenerant Contact Time | > 20 minutes | | |

## BACKWASH EXPANSION




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

## CERTIFICATIONS

Solvent-Free

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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