

CNS10-F

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

ResinTech CNS-10-F is a solvent-free premium grade dark colored sodium form highly crosslinked gel strong acid cation resin with high resistance to both thermal and chemical oxidation. It is intended for use in all residential and industrial applications where the importance of durability supersedes efficiency. It is particularly resistant to oxidation by chlorine or chloramines.



APPLICATIONS

- Chlorine Tolerant
- Softening



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

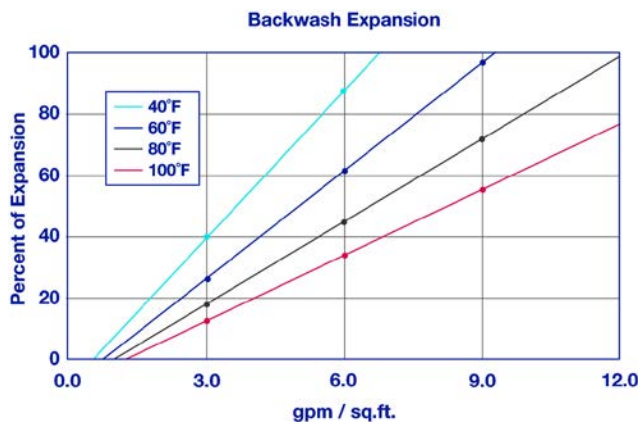
REACH Registered
 Kosher Certified
 Halal Certified

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

CNS10-F

| | | | |
|----------------------------|---------------------------|------------------------|------------------|
| Polymer Matrix | Styrene/DVB | Minimum Sphericity (%) | 90 |
| Polymer Type | Gel | Reversible Swelling | 5 to 9% (Na → H) |
| Ionic Form (as shipped) | Sodium (Na ⁺) | Uniformity | Gaussian |
| Functional Group | Sulfonic Acid | Uniformity Coefficient | 1.25 |
| Physical Form | Spherical Beads | Capacity (meq/mL) | 2.10 |
| Particle Size US Mesh (μm) | 30 (595) to 50 (297) | Moisture Retention (%) | 40 to 47 |
| < 70 mesh (210 μm) % | < 2% | Color | Black |
| | | Regenerable | Regenerable |

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CNS10-F 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 - 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

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