

MAGNA CG10

STRONG ACID CATION

POLYSTYRENIC GEL
10% CROSSLINKED
SODIUM FORM

ResinTech CG10 is a premium grade strong acid cation resin in sodium form. It is amber in color and made from a 10% cross-linked gel. CG10 offers high resistance to physical, thermal, and chemical degradation. It is indicated for all industrial applications where the importance of durability and high capacity outweigh the higher amounts of chemical needed for regeneration compared to lower cross-linked cation resins.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Softening - High Temperature

| TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS | |
|---|---|
| Polymer Matrix | Styrenic Gel |
| Ionic Form | Sodium |
| Functional Group | Sulfonic Acid |
| Physical Form | Spherical Beads |
| Particle Size | 16 to 50 US Mesh (297 - 1190 µm) |
| % < 50 mesh (300µm) | < 1% |
| Minimum Sphericity | 93% |
| Uniformity Coefficient | 1.6 |
| Reversible Swelling | Na to H 4% to 8% |
| Temp Limit | 280°F (138°C) |
| Capacity (meq/mL) | 2.2 |
| Moisture Retention | 39% to 45% |
| Shipping Weight | 53 - 55 lbs/ft ³ (849 - 881 g/L) |
| Color | Amber |
| Regenerability | Yes |

CERTIFICATIONS

- Kosher Certified
- Halal Certified

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

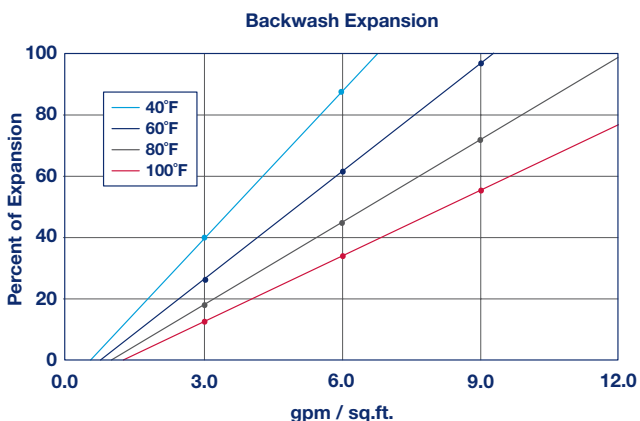
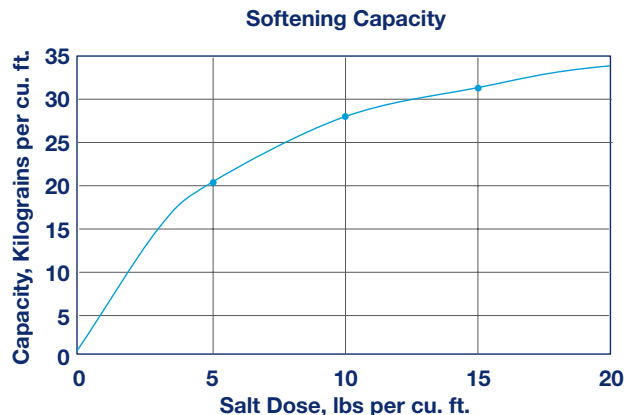
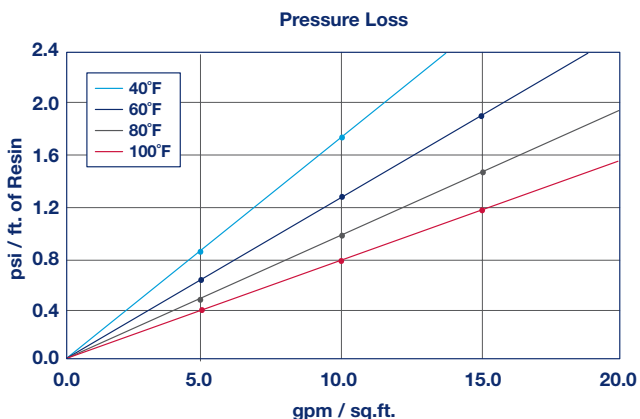
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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

SUGGESTED OPERATING CONDITIONS

| | |
|--------------------------------|---|
| Maximum continuous temperature | 280°F |
| Sodium form | |
| Minimum bed depth | 24 inches |
| Backwash expansion | 25 to 50 percent |
| Maximum pressure loss | 25 psi |
| Operating pH range | 0 to 14 SU |
| Regenerant Concentration | |
| Hydrogen cycle | 5 to 10 percent HCl |
| Hydrogen cycle | 1 to 8 percent H ₂ SO ₄ |
| Salt cycle | 10 to 15 percent NaCl |
| Regenerant level | 4 to 15 lbs./cu.ft. |
| Regenerant flow rate. | 0.5 to 1.5 gpm/cu.ft. |
| Regenerant contact time | >20 minutes |
| Displacement flow rate | Same as dilution water |
| Displacement volume | 10 to 15 gallons/cu.ft. |
| Rinse flow rate | Same as service flow |
| Rinse volume | 35 to 60 gallons/cu.ft. |
| Service flow rate | 1 to 10 gpm/cu.ft. |

HIGH TEMPERATURE USE

ResinTech CG10 is suitable for operation at temperatures as high as 280°F. At temperatures above 212°F, dissolved oxygen in the feedwater is a powerful oxidant and can chemically damage the resin. Oxygen levels in the feed should be reduced to less than 0.05 ppm to ensure a reasonable service life of the resin.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums. For operation outside these guidelines, contact ResinTech Technical Support

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