

PRODUCT SPECIFICATION SHEET

MAGNA CG8-BL

STRONG ACID CATION

BLACK POLYSTYRENIC GEL
8% CROSSLINKED
SODIUM FORM

ResinTech CG8-BL is a dark-colored strong acid cation resin in sodium form made from a 10% cross-linked gel. CG8-BL has the same physical characteristics, regeneration efficiency, and oxidative stability as other resins in the CG8 family. CG8-BL is intended for use in all industrial applications including both softening and demineralization and is recommended for mixed beds where its dark color distinguishes it from amber-colored anion resins.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Iron Removal
- Ammonia Removal

| 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) | 17% |
| Minimum Sphericity | 93% |
| Uniformity Coefficient | 1.6 |
| Reversible Swelling | Na to H 5% to 9% |
| Temp Limit | 280°F (138°C) |
| Capacity (meq/mL) | 2.0 |
| Moisture Retention | 42% to 49% |
| Shipping Weight | 51 - 53 lbs/ft ³ (817 - 849 g/L) |
| Color | Dark Brown to Black |
| Regenerability | Yes |

CERTIFICATIONS

Kosher Certified

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

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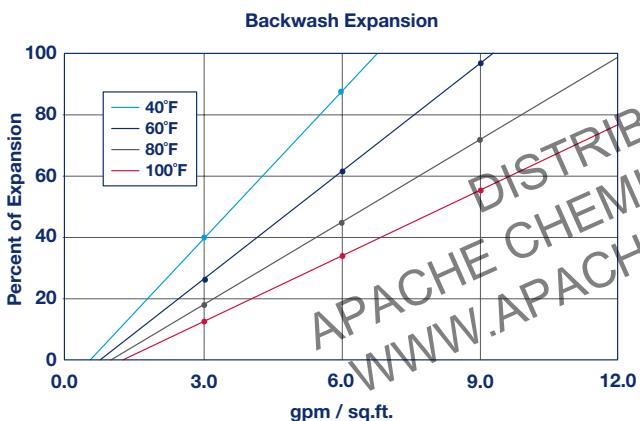
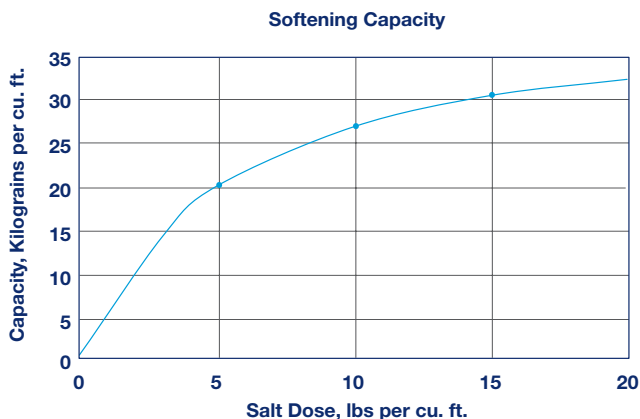
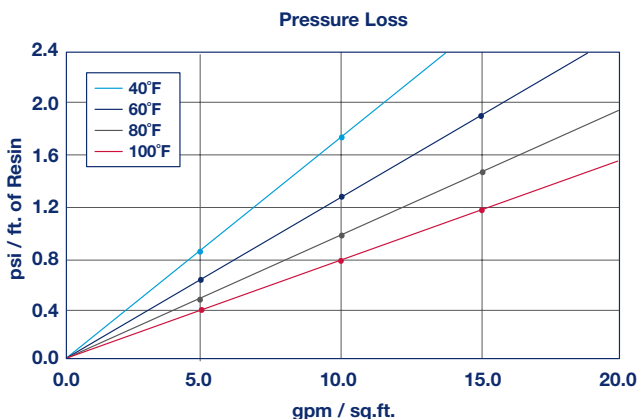


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Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

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. |

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

IRON REMOVAL

CG8-BL has good capacity for ferrous iron. Iron content in the feedwater should not be more than 1 mg/L Fe per each 17 mg/L of hardness.

AMMONIA REMOVAL

CG8-BL is slightly selective for ammonia compared to sodium but hardness is much more preferred. Ammonia is not ionized at pH above 9 and is not well removed when the pH is significantly alkaline.

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