# CG8-BL-HP

Grade: High Purity

**Strong acid black cation resin, styrene/DVB 8% crosslinked gel, high purity, sodium form**

ResinTech CG8-BL-HP is a high purity strong acid cation resin in the sodium form. It is dark brown in color and made from a 8% crosslinked gel. The HP (high purity) designation means it is Gold Seal Certified by the WQA for use in potable water applications. CG8-BL-HP is intended for softening and other salt form applications that require potable water certification.

## FEATURES & BENEFITS

- Industrial softening and demineralizing applications
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

## APPLICATIONS

- Drinking Water Purification
- Softening

## PHYSICAL PROPERTIES

| | |
|---|---|
| Polymer Matrix | Styrene/DVB |
| Polymer Type | Gel |
| Ionic Form (as shipped) | Sodium ($Na^+$) |
| 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 (%) | 93 |
| Reversible Swelling | 5 to 9% (Na → H) |
| Capacity (meq/mL) | 2.00 |
| Moisture Retention (%) | 42 to 49 |
| Shipping Weight | 51 - 53 lbs/cu.ft. (817 - 849 g/L) |
| Color | Black |
| Regenerable | Regenerable |

## SUGGESTED OPERATING CONDITIONS

| | |
|---|---|
| Maximum Temperature | 280°F (138°C) |
| Minimum Bed Depth | 24 in. (61.0 cm) |
| Maximum Pressure Loss | 25 psi (172 kPa) |
| Backwash Expansion (%) | 25 to 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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INNOVATIONS IN ION EXCHANGE

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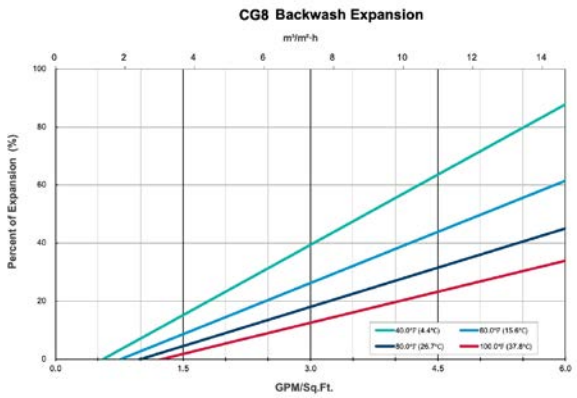
CG8-BL-HP

## REGENERATION DETAILS

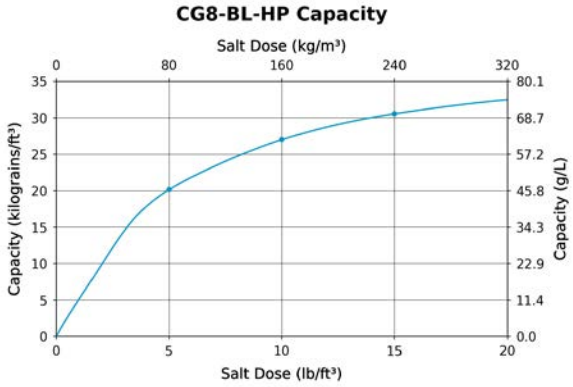
| | | | |
|---|---|---|---|
| Salt Cycle (NaCl) | 10 to 15% | Displacement Flow Rate | Same as dilution water |
| Regenerant Level | 4-15 lbs/cu.ft. (64.1-240.3 g/L) | Displacement Volume | 10-15 gals/cu.ft. (1-2 BV) |
| Regenerant Flow Rate | 0.5-1.5 gpm/cu.ft. (4-12 BV/h) | Rinse Flow Rate | Same as service flow |
| Regenerant Contact Time | > 20 minutes | Rinse Volume | 35-60 gals/cu.ft. (5-8 BV) |

## BACKWASH EXPANSION




The graph above shows the expansion characteristics of ResinTech CG8-BL-HP as a function of flow rate at various temperatures.

## CAPACITY




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.

## CERTIFICATIONS

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

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*

51 - 53 lbs/cu.ft. (817 - 849 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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