

RESINTECH CG8-BL is a dark colored sodium form 8% crosslinked gel strong acid cation resin. *CG8-BL* is a workhorse cation resin optimized for industrial and residential applications that require good regeneration efficiency and oxidative stability. *RESINTECH CG8-BL* is intended for use in all industrial and commercial softening applications, as well as residential applications that have moderate amounts of chlorine in the feedwater. *CG8-H-BL* is intended for use in demineralizers and in mixed beds. *CG8-BL* is available in the sodium or hydrogen form (when ordered as *CG8-H-BL*).



WQA Gold Seal Certified when ordered as CG8-BL-HP

FEATURES & BENEFITS

- INDUSTRIAL SOFTENING AND DEMINERALIZING APPLICATIONS
 8% DVB crosslinking is ideal for most industrial applications
- LOW COLOR THROW
- SUPERIOR PHYSICAL STABILITY

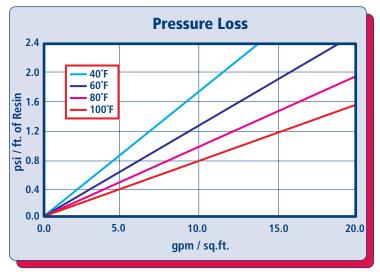
93% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop

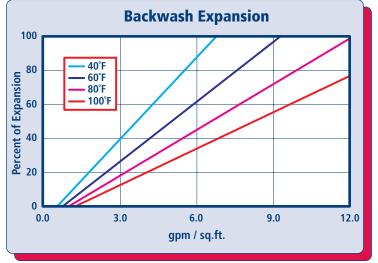
COMPLIES WITH US FDA REGULATIONS

Conforms to paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

NSF/ANSI-61 compliance requires conditioning with a minimum 20 bed volume rinse prior to first use.

HYDRAULIC PROPERTIES





PRESSURE LOSS

The graph above shows the expected pressure loss of *ResinTech CG8-BL* per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH

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

RESINTECH® CG8-BL

PHYSICAL PROPERTIES

Styrene/DVB **Polymer Structure**

Polymer Type Gel

Sulfonic Acid **Functional Group Physical Form** Spherical beads Ionic Form as shipped Sodium or Hydrogen

Total Capacity

Hydrogen form >1.8 meg/mLSodium form >2.0 meg/mL

Water Retention

Hydrogen form 47 to 56 percent Sodium form 42 to 49 percent

Approximate Shipping Weight

Hydrogen form 50 lbs./cu.ft. Sodium form 52 lbs./cu.ft. Swelling, Na to H 5 to 9 percent Screen Size Distribution (U.S. mesh) 16 to 50

Maximum Fines Content (<50 mesh) 1 percent Minimum Sphericity 93 percent **Uniformity Coefficient** 1.6 approx. **Resin Color** Brown to black Note: Physical properties can be certified on a per lot basis, available upon request

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature

265°F Hydrogen form Sodium form 280°F Minimum bed depth 24 inches **Backwash expansion** 25 to 50 percent

Maximum pressure loss 25 psi 0 to 14 SU Operating pH range

Regenerant Concentration

Hydrogen cycle 5 to 10 percent HCI 1 to 8 percent H₂SO₄ Hydrogen cycle 10 to 15 percent NaCl Salt cycle 4 to 15 lbs./cu.ft. Regenerant level Regenerant flow rate 0.5 to 1.5 gpm/cu.ft.

Regenerant contact time >20 minutes

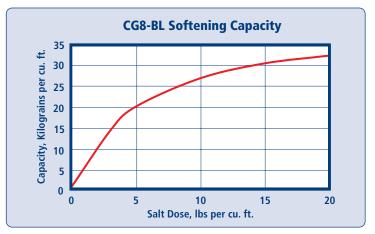
Same as dilution water Displacement flow rate Displacement volume 10 to 15 gallons/cu.ft. Rinse flow rate Same as service flow Rinse volume 35 to 60 gallons/cu.ft. Service flow rate 1 to 10 gpm/cu.ft.

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

APPLICATIONS

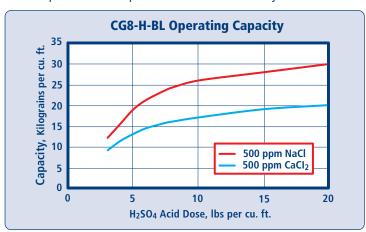
SOFTENING



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.

DEMINERALIZATION

ResinTech CG8-BL can be used as the cation component in separate bed and mixed bed demineralization applications where a hydrogen form cation resin is coupled with a hydroxide form anion resin. Regeneration is accomplished with stepwise sulfuric acid or with hydrochloric acid.



Capacity based on 500 ppm of stated salt (as CaCO₃) with 0% alkalinity, 36 in. bed depth, flow rate of 2 to 4 gpm per cu. ft. and >30 min. chemical injection time. Sulfuric acid concentration must be stepwise when calcium concentration exceeds 20% of total cations. No engineering downgrade has been applied.

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

RESINTECH 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.

CG8-BL rev 1.3

CAUTION: DO NOT MIX ION EXCHANGE RESIN WITH STRONG OXIDIZING AGENTS. Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials, such as ion exchange resins. MATERIAL SAFETY DATA SHEETS (MSDS) are available for all ResinTech Inc. products. To obtain a copy, contact your local ResinTech sales representative or our corporate headquarters. They contain important health and safety information. That information 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. RESINTECH is a registered trademark ® of RESINTECH INC.