

**RESINTECH CG8-H-ID** is a hydrogen form 8% crosslinked gel strong acid cation resin. *CG8-H-ID* is dyed with a permanent purple dye that changes from purple to yellow as the resin exhausts. *RESINTECH CG8-H-ID* is intended for use anywhere that a visual indication of resin exhaustion is desired. *CG8-H-ID* is supplied in the hydrogen form.

## FEATURES & BENEFITS

- **COLOR INDICATING RESIN**

Color changes from purple to yellow as resin exhausts from hydrogen form, providing a simple visual indication of depletion. The dye is permanent and does not wash out. The purple dye (azobenzene) is stable throughout the full pH range.

- **CATION CONDUCTIVITY**

CG8-H-ID is ideal for use in cation conductivity columns where the removal of ammonia, amines and other cations allows a more sensitive measurement of the conductivity being contributed by the anions that are present.

- **OPTIMIZED PARTICLE SIZE FOR USE IN CARTRIDGES**

Particle size provides optimum performance in cartridges. CG8-H-ID is intended for point-of-use cation conductivity cartridges and for other single bed and mixed bed applications where a visible indication of resin exhaustion is desired.

## PHYSICAL PROPERTIES

Polymer Structure	Styrene/DVB
Polymer Type	Gel
Functional Group	Sulfonic Acid
Physical Form	Spherical beads
Ionic Form as shipped	Hydrogen
Total Capacity	
Hydrogen form	>1.8 meq/mL
Water Retention	
Hydrogen form	47 to 56 percent
Approximate Shipping Weight	
Hydrogen form	50 lbs./cu.ft.
Screen Size Distribution (U.S. mesh)	16 to 50
Maximum Fines Content (<50 mesh)	1 percent
Minimum Sphericity	85 percent
Uniformity Coefficient	1.6 approx.
Resin Color	Purple

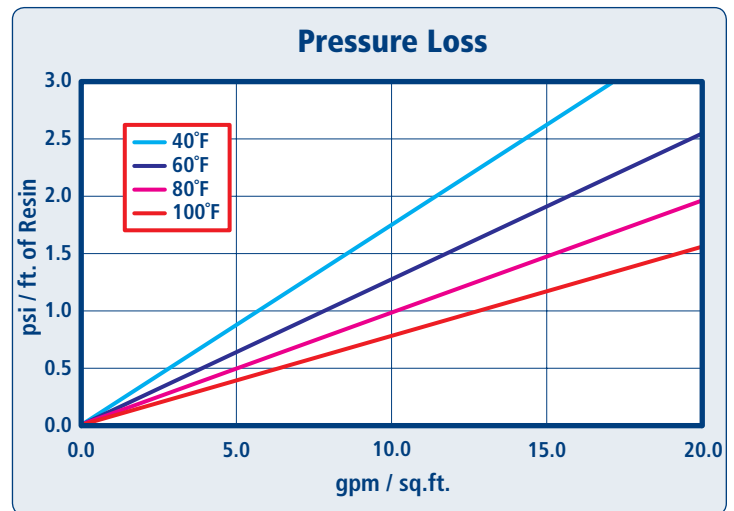
Note: Physical properties can be certified on a per lot basis, available upon request

## SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Hydrogen form	190°F
Maximum pressure loss	25 psi
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



### PRESSURE LOSS

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



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**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.

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