

# CG10-HP

**Strong acid cation resin, styrene/DVB 10% crosslinked gel, high purity, sodium form**

ResinTech CG10-HP is a premium grade, high purity strong acid cation resin in the sodium form. It is amber in color and made from a 10% crosslinked gel. CG10-HP offers high resistance to physical, thermal, and chemical degradation. Gold Seal Certified by the WQA for use in potable water applications, it is intended for use when the importance of durability and high capacity outweigh the higher amounts of chemicals needed for regeneration.



## FEATURES & BENEFITS

- 10% divinylbenzene
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

## APPLICATIONS

- Drinking Water Purification
- Softening



Meets NSF/ANSI/CAN 61  
Meets NSF/ANSI/CAN 372  
REACH Registered

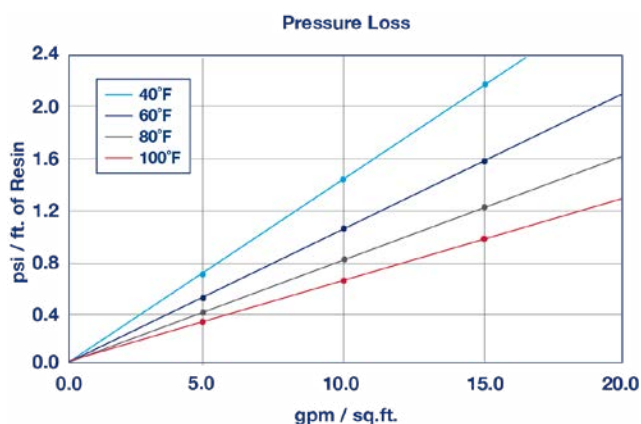
Kosher Certified  
Halal Certified

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

CG10-HP

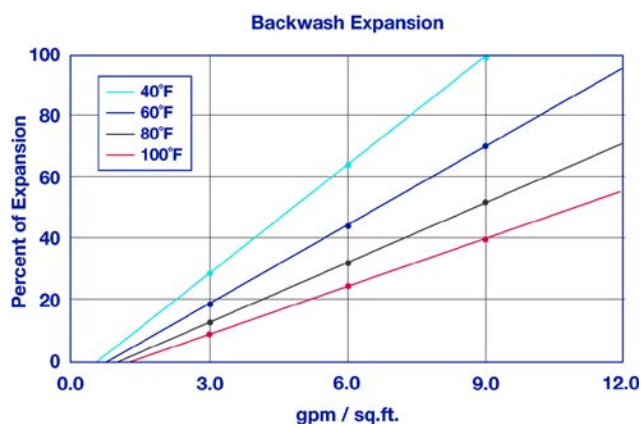
Polymer Matrix	Styrene/DVB	Reversible Swelling	4 to 8% (Na → H)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Sodium (Na <sup>+</sup> )	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.20
Physical Form	Spherical Beads	Moisture Retention (%)	39 to 45
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Shipping Weight	52 - 54 lbs/cu.ft. (833 - 865 g/L)
< 50 mesh (300 µm) %	< 1%	Color	Amber
Minimum Sphericity (%)	93	Regenerable	Regenerable

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech CG10-HP per foot of bed depth as a function of flow rate at various temperatures.

**BACKWASH EXPANSION**



The graph above shows the expansion characteristics of ResinTech CG10-HP as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	265°F (129°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 to 50		

**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)



**PACKAGING****Standard**

1 cu.ft. Bag | 42 cu.ft. Supersack  
5 cu.ft. Drum | 7 cu.ft. Drum

**Metric**

140L Drum | 200L Drum

**SAFETY DATA SHEETS (SDS)**

Safety Data Sheets (SDS) 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](https://resintech.com)

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