CG10

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

ResinTech CG10 is a premium grade strong acid cation resin in the sodium form. It is amber in color and made from a 10% crosslinked gel. CG10 offers high resistance to physical, thermal, and chemical degradation. It is intended for all industrial applications where the importance of durability and high capacity outweigh the higher amounts of chemical needed for regeneration compared to lower crosslinked cation resins.



FEATURES & BENEFITS

- 10% Divinylbenzene
- Low Color Throw
- Superior Physical Stability
- Complies With US FDA Regulations

APPLICATIONS

- Softening - High Temperature
- Softening - Industrial

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

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INNOVATIONS IN ION EXCHANGE

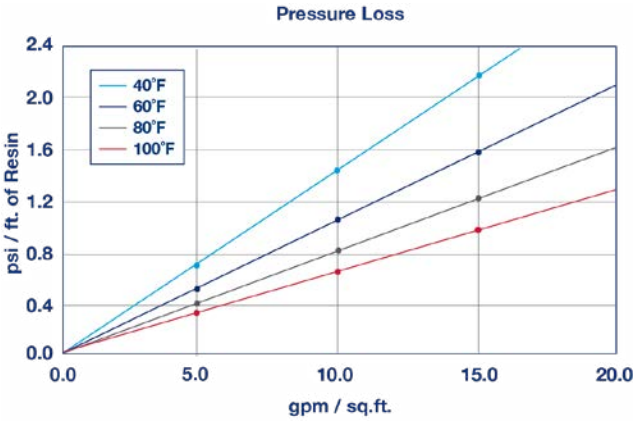
CORPORATE HEADQUARTERS 1901 Federal Street Camden, NJ 08105 USA PHONE 856.769.9600 EMAIL info@resintech.com WEB resintech.com

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Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size US Mesh (µm)	16 (1190) to 50 (297)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93

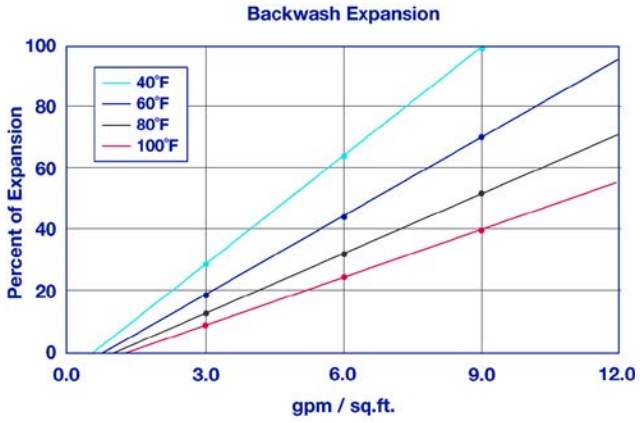
Reversible Swelling	4 to 8% (Na → H)
Uniformity	Gaussian
Uniformity Coefficient	1.60
Capacity (meq/mL)	2.20
Moisture Retention (%)	39 to 45
Shipping Weight	55 - 53 lbs/cu.ft. (881 - 849 g/L)
Color	Amber to Brown
Regenerable	Regenerable

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech CG10 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 as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

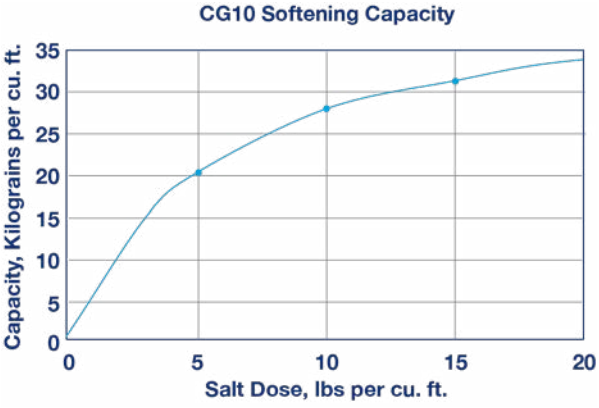
Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 to 50

Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

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SOFTENING



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 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.

HIGH TEMPERATURE USE

ResinTech **CG10** is suitable for operation at temperatures as high as 280 ℉. At temperatures above 212 ℉, dissolved oxygen in the feed water is a powerful oxidant and can chemically damage the resin. Oxygen levels in the feed should be reduced to less than 0.05 ppm to ensure a reasonable service life of the resin.

DEMINERALIZATION

See ResinTech **CG10-H**.

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

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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.

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