

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

- High Temperature Applications
- Condensate Polishing
- Softening
- Amine Solutions
- Brackish
- Condensate
- Groundwater
- Neutral Water
- Plating Rinse Water
- Potable Water

Produced Water
Meets NSF/ANSI 372
Reactor Water

Kosher Certified
Halal Certified

REACH Registered

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

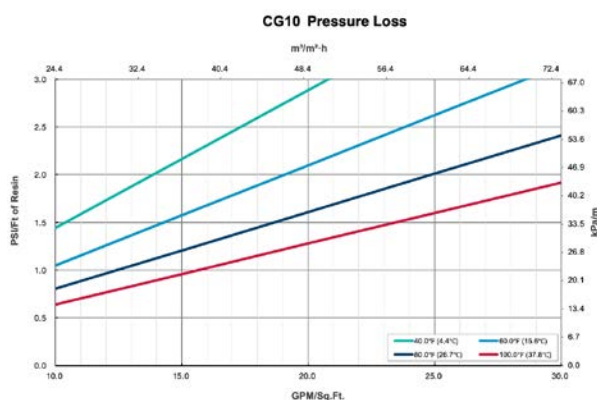


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PHYSICAL PROPERTIES

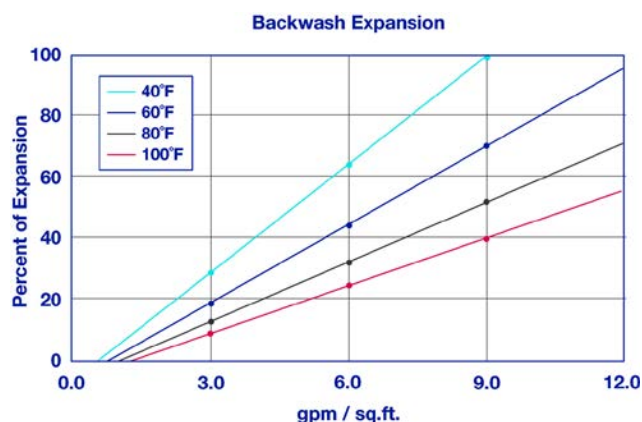
Polymer Matrix	Styrene/DVB	Reversible Swelling	4 to 8% (Na → H)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Sodium (Na ⁺)	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.20
Physical Form	Spherical Beads	Moisture Retention (%)	39 to 45
Particle Size US Mesh (μm)	16 (1190) to 50 (297)	Shipping Weight	53 - 55 lbs/cu.ft. (849 - 881 g/L)
< 50 mesh (300 μm) %	< 1%	Color	Amber to Brown
Minimum Sphericity (%)	93	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.

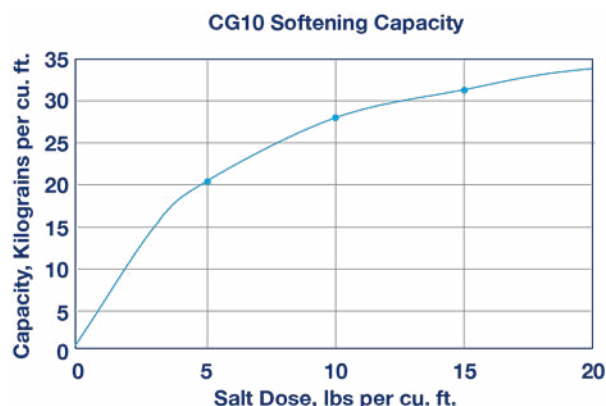
BACKWASH EXPANSION



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)	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		

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 °F. At temperatures above 212 °F, 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

25L Bag | 1000L Supersack
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

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