CG10-H-C-BL

Strong acid black cation resin, styrene/DVB 10% crosslinked gel, coarse mesh, hydrogen form

ResinTech CG10-H-C-BL is a coarse, dark-colored hydrogen form 10% crosslinked gel strong acid cation resin. It has the same high capacity and resistance to both thermal and chemical oxidation as other products in the CG10 family. CG10-H-C-BL is intended for industrial applications where high capacity and durability are desired in a hydrogen form cation resin. It is recommended for mixed beds where its dark color and increased density are helpful.

FEATURES & BENEFITS

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

APPLICATIONS

- Industrial Demineralization
- Cation Component in Mixed Beds

C US

REACH Registered

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

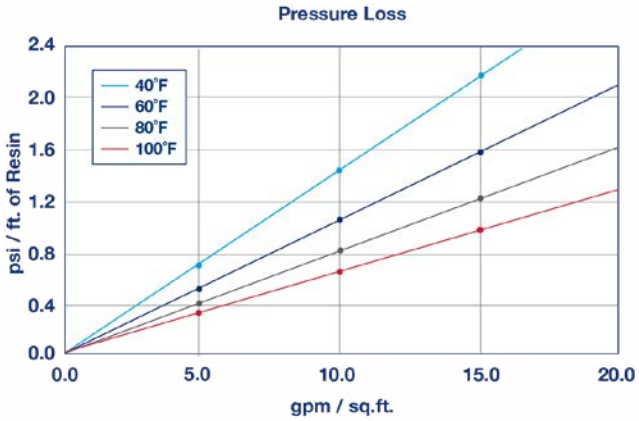
CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

CG10-H-C-BL

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Hydrogen (H^+)
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

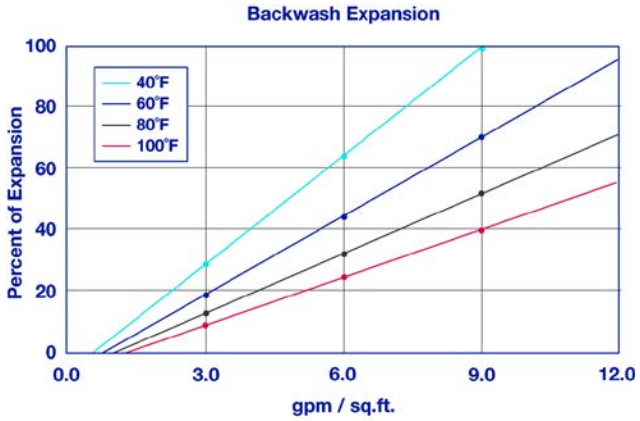
Reversible Swelling	4 to 8% (Na → H)
Uniformity	Gaussian
Uniformity Coefficient	1.40
Capacity (meq/mL)	2.00
Moisture Retention (%)	47 to 56
Shipping Weight	50 - 52 lbs/cu.ft. (801 - 833 g/L)
Color	Dark Brown to Black
Regenerable	Regenerable

PRESSURE LOSS



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

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	265°F (129°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)

REGENERATION DETAILS

Hydrogen Cycle (H2SO4)	1 to 8%
Hydrogen Cycle (HCl)	5 to 10%
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)
Regenerant Contact Time	> 20 minutes

Displacement Flow Rate	Same as dilution water
Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Rinse Flow Rate	Same as service flow
Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

PACKAGING

Standard

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

Metric

25L Bag | 140L 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

RESIN TECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com