

CG10-BL-HP

Strong acid black cation resin, styrene/DVB 10% crosslinked gel, high purity, hydrogen form

ResinTech CG10-BL HP is a high purity premium grade strong acid cation resin in the sodium form. It is dark brown in color and made from a 10% crosslinked gel. CG10-BL HP has the same high resistance to physical, thermal, and chemical degradation as other resins in the CG10 family. It is intended for industrial applications where the need for 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
- Softening - Municipal



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

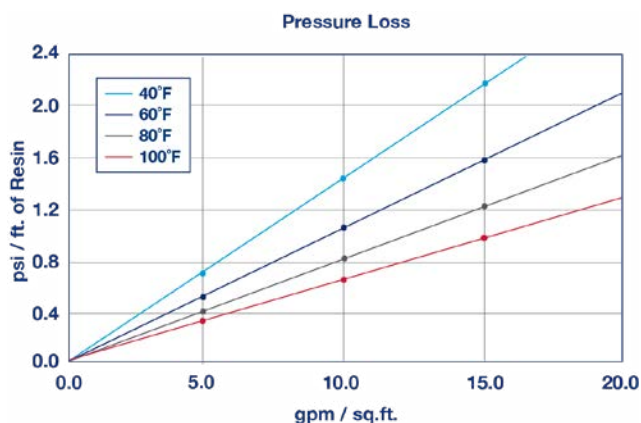
Kosher Certified
 Halal Certified

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

CG10-BL-HP

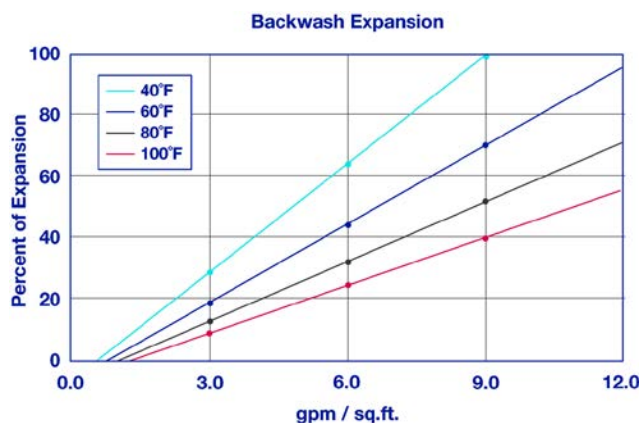
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	93
Polymer Type	Gel	Reversible Swelling	4 to 8% (Na → H)
Ionic Form (as shipped)	Sodium (Na ⁺)	Uniformity	Gaussian
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.20
Physical Form	Spherical Beads	Moisture Retention (%)	39 to 45
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Color	Dark Brown to Black
< 50 mesh (300 µm) %	< 1%	Regenerable	Regenerable

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech CG10-BL-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-BL-HP 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		

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

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