

CG10-H-BL

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

ResinTech CG10-H-BL is a 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-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

- Demineralization / DI
- Condensate Polishing
- Mixed Bed Components

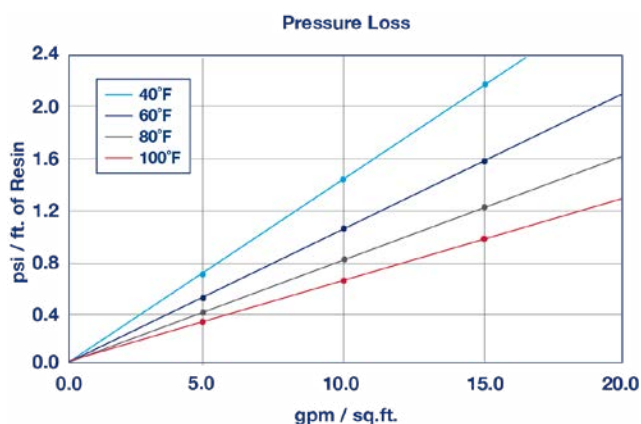


REACH Registered

CG10-H-BL

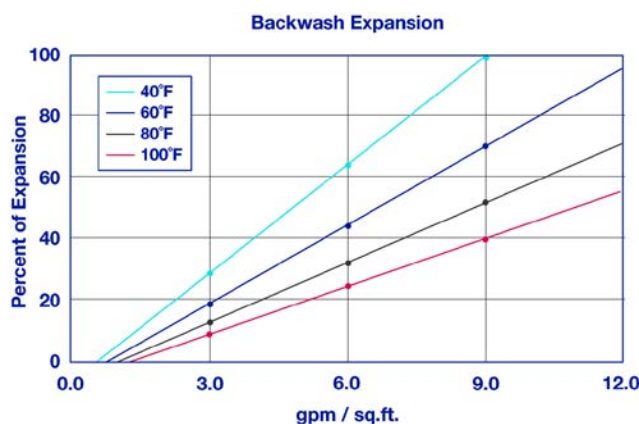
Polymer Matrix	Styrene/DVB	Reversible Swelling	4 to 7% (Na → H)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Hydrogen (H ⁺)	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	2.00
Physical Form	Spherical Beads	Moisture Retention (%)	46 to 52
Particle Size US Mesh (μm)	16 (1190) to 50 (297)	Shipping Weight	50 - 52 lbs/cu.ft. (801 - 833 g/L)
< 50 mesh (300 μm) %	< 1%	Color	Dark Brown to Black
Minimum Sphericity (%)	93	Regenerable	Regenerable

PRESSURE LOSS



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

Hydrogen Cycle (H ₂ SO ₄)	1 to 8%	Displacement Flow Rate	Same as dilution water
Hydrogen Cycle (HCl)	5 to 10%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Rinse Flow Rate	Same as service flow
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)
Regenerant Contact Time	> 20 minutes		



PACKAGING**Standard**

42 cu.ft. Supersack | 7 cu.ft. Drum
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

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