

# CG10-BL-UPS

**Strong acid black cation resin, styrene/DVB 10% crosslinked gel, uniform particle size, sodium form**

ResinTech CG10-BL-UPS is a uniform-sized, premium grade strong acid cation resin in sodium form. It is dark brown in color and made from a 10% crosslinked gel. CG10-BL-UPS has the same high resistance to physical, thermal, and chemical degradation as other resins in the CG10 family. It is intended for industrial applications and drinking water 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
- Uniform particle size
- Superior physical stability
- Complies with US FDA regulations

## APPLICATIONS

- High Temperature Applications
- Condensate Polishing
- Softening



C US

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

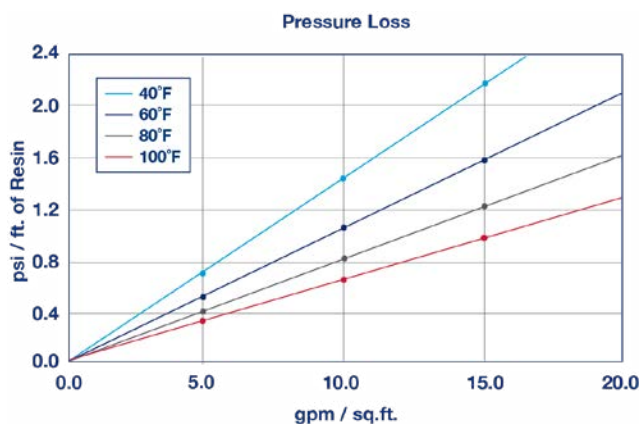
Kosher Certified  
Halal Certified

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

CG10-BL-UPS

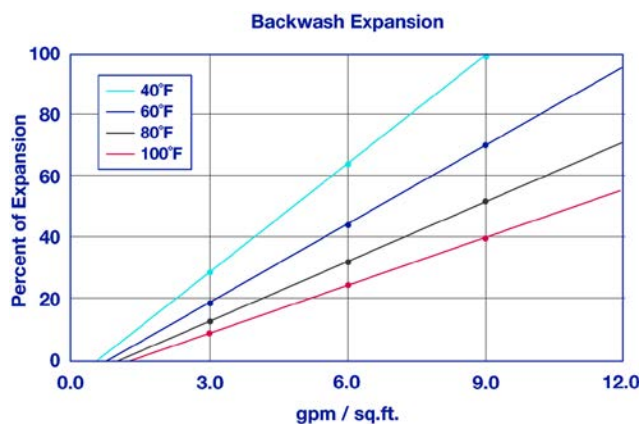
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Gel	Reversible Swelling	4 to 8% (Na → H)
Ionic Form (as shipped)	Sodium (Na <sup>+</sup> )	Uniformity	UPS
Functional Group	Sulfonic Acid	Uniformity Coefficient	1.25
Physical Form	Spherical Beads	Capacity (meq/mL)	2.20
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Moisture Retention (%)	39 to 45
< 50 mesh (300 µm) %	< 0.5%	Color	Dark Brown to Black
		Regenerable	Regenerable

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech CG10-BL-UPS 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-UPS 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](https://resintech.com)

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