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CG10-H-BL-UPS

Uniform Size Strong Acid Black Cation Resin, Polystyrenic Gel crosslinked with 10% Divinylbenzene, Hydrogen Form

Features & Benefits

- UNIFORM PARTICLE SIZE
- 10% DIVINYLBENZENE
- SUPERIOR PHYSICAL STABILITY
- LOW ORGANIC LEACHABLES

DESCRIPTION

ResinTech CG10-H-BL-UPS is an industrial grade, 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-UPS 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.

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Hydrogen (H^+)
Physical Form	Spherical Beads
Capacity (meq/mL)	2.00
Moisture Retention (%)	44 to 52
Reversible Swelling (%)	4 to 8 (Na → H)

Particle Size	US Mesh (µm): 20 (841) to 40 (400)
< 50 mesh (300 µm) (%)	< 0.5%
Minimum Sphericity (%)	95
Uniformity Coefficient	1.25
Color	Dark Brown to Black

CERTIFICATIONS

REACH Registered	Yes

STANDARD PACKAGING

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

1000L Supersack | 200L Drum

OPTIONAL PACKAGING

1 cu.ft. Bag | 5 cu.ft. Drum

25L Bag | 140L Drum

PRIMARY APPLICATIONS

Softening - High Temperature | Softening - Industrial

OPERATING CONDITIONS

Maximum Continuous Temperature	280°F (138°C)
Bed Depth	24 in. (61.0 cm)
Backwash Expansion	25 to 50%
Maximum Pressure Loss	25 psi (172.38 kPa)
Operating pH Range	0 to 14

REGENERATION DETAILS

Service Flow Rate	1 - 10 gpm/cu.ft. (8 - 80 BV/h)
Hydrogen Cycle (H_2SO_4) Concentration	1 to 8%
Hydrogen Cycle (HCl) Concentration	5 to 10%
Regeneration Level	4 - 15 lbs/cu.ft. (64.1 - 240.3 g/L)
Regeneration 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 to 15 gals/cu.ft. (1 to 2 BV)
Rinse Flow Rate	Same as service flow
Rinse Volume	35 - 60 gals/cu.ft. (5 - 8 BV)

IMPORTANT NOTES

Have a question?

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CAUTION: Do not mix ion exchange products with strong oxidizing agents. Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials, such as ion exchange resins.

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