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CG8-H-SC

Condensate Polishing Grade Strong Acid Cation Resin, Polystyrenic Gel crosslinked with 8% Divinylbenzene, Hydrogen Form

Features & Benefits

- SEMI-CONDUCTOR GRADE
- LOW TOC
- SUPERIOR PHYSICAL STABILITY

DESCRIPTION

ResinTech CG8-H-SC is an amber-colored hydrogen form 8% crosslinked gel strong acid cation resin. The SC grade means it has been functionally tested to produce > 18 megohm resistivity and under 50 ppb of TOC (when paired in a mixed bed with SC grade anion resin). CG8-H-SC is intended for use in all industrial applications such as demineralization where a hydrogen form cation resin is required.

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)	1.80
Moisture Retention (%)	47 to 56
Shipping Weight	50 lbs/cu.ft. (~801 g/L)
Reversible Swelling (%)	5 to 9 (Na → H)
Particle Size	US Mesh (µm): 16 (1190) to 50 (297)

< 50 mesh (300 µm) (%)	< 1%
Minimum Sphericity (%)	93
Uniformity Coefficient	1.60
Color	Amber to Brown

CERTIFICATIONS

REACH Registered	Yes

STANDARD PACKAGING

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

200L Drum | 1000L Supersack

OPTIONAL PACKAGING

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

25L Bag | 140L Drum

TARGET CONTAMINANTS

Calcium | Magnesium | Sodium

PRIMARY APPLICATIONS

Cation Component in Mixed Beds | Industrial Demineralization

OPERATING CONDITIONS

Maximum Continuous Temperature	265°F (129°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	35.0 - 60.0 gals/cu.ft. (5 - 8 BV)

IMPORTANT NOTES

Have a question?

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Current safety data sheets are available at www.resintech.com/sds.

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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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