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CG10-F

Fine Mesh Strong Acid Cation Resin, Polystyrenic Gel crosslinked with 10% Divinylbenzene, Sodium Form

Features & Benefits

- 10% DIVINYLBENZENE
- LOW COLOR THROW
- FINE PARTICLE SIZE
- SUPERIOR PHYSICAL STABILITY
- COMPLIES WITH US FDA REGULATIONS

DESCRIPTION

ResinTech CG10-F is a fine mesh resin with high surface area and a short diffusion path from the surface to the center of the bead. CG10-F is intended for use in applications such as iron removal where these properties are needed for improved kinetics and/or operation in high TDS solutions.

PHYSICAL PROPERTIES

Polymer Type	Gel
Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Sodium (Na^+)
Physical Form	Spherical Beads
Capacity (meq/mL)	2.20
Moisture Retention (%)	39 to 45
Reversible Swelling (%)	4 to 8 (Na → H)
Particle Size	US Mesh (µm): 30 (595) to 50 (297)

< 50 mesh (300 µm) (%)	< 30%
Minimum Sphericity (%)	93
Uniformity Coefficient	1.40
Color	Amber

CERTIFICATIONS

REACH Registered	Yes
Kosher Certified	Yes
Halal Certified	Yes
Satisfies USFDA Regulations ¶21CFR173.25	Yes

STANDARD PACKAGING

1 cu.ft. Bag | 42 cu.ft. Supersack

25L Bag | 1000L Supersack

OPTIONAL PACKAGING

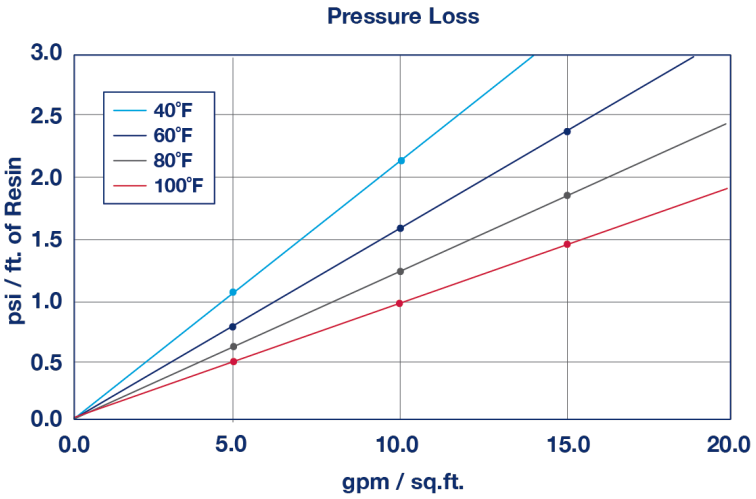
5 cu.ft. Drum | 7 cu.ft. Drum

140L Drum | 200L Drum

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

PRESSURE LOSS



REGENERATION DETAILS

Service Flow Rate	1 - 10 gpm/cu.ft. (8 - 80 BV/h)
Salt Cycle (NaCl) Concentration	10 to 15%
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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Current safety data sheets are available at www.resintech.com/sds.

Usage Warning & Disclaimer

IMPORTANT: Physical Properties can be certified on a per lot basis and are available upon request. Any operating conditions referenced are intended to describe low-risk operational guidelines. They are not intended to reflect absolute minimums or maximums. Always consult with your ResinTech technical sales representative before making product purchase decisions.

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.

SAFETY DATA SHEETS (MDSD): Are available for all ResinTech Inc. products and contain important health and safety information to protect your employees and customers from any known health and safety hazards associated with our products. 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. To obtain an MSDS, visit: www.resintech.com/sds or contact your local ResinTech technical sales representative or our corporate headquarters.

Product Stewardship

ResinTech has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with ResinTech products from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.