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CG8-H-BL-NS

Features & Benefits

- HYDROGEN FORM, SOLVENT-FREE
- INDUSTRIAL SOFTENING AND DEMINERALIZING APPLICATIONS
- LOW COLOR THROW
- SUPERIOR PHYSICAL STABILITY
- COMPLIES WITH US FDA REGULATIONS

DESCRIPTION

ResinTech CG8-H-BL-NS is a non-solvent, dark-colored hydrogen form 8% crosslinked gel strong acid cation resin. It is a workhorse cation resin with properties similar to other products in the CG8 family. CG8-H-BL-NS is intended for use in all industrial applications such as demineralization where a hydrogen form cation resin is required and for mixed beds where its dark color makes visual identification of the cation/anion interface plainly evident.

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	Dark Brown to Black

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

PRIMARY APPLICATIONS

Ammonia Reduction | Iron Reduction | Softening - Industrial

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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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.