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CG16-UPS

Features & Benefits

- 16% DIVINYLBENZENE
- LOW COLOR THROW
- UNIFORM PARTICLE SIZE
- SUPERIOR PHYSICAL STABILITY

DESCRIPTION

ResinTech CG16-UPS is a uniform particle size, highly crosslinked strong acid cation resin in the sodium form. It is amber-colored and made using 16% crosslinked gel, yielding a much higher capacity. It is intended for single-use industrial and radwaste applications where the maximum possible sodium form capacity is desired. Although CG16-UPS can be regenerated, the high crosslinking makes multicycle use more difficult than with other lower crosslinked cation resins.

PHYSICAL PROPERTIES

Polymer Type	Gel
Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Sodium (Na^+)
Physical Form	Spherical Beads
Capacity (meq/mL)	2.40
Moisture Retention (%)	42 to 49
Reversible Swelling (%)	3 to 7 (Na → H)
Particle Size	US Mesh (µm): 20 (841) to 40 (400)
Minimum Sphericity (%)	93
Uniformity Coefficient	1.25
Color	Amber

CERTIFICATIONS

REACH Registered	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

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.

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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.