CG16

Strong acid cation resin, styrene/DVB 16% crosslinked gel, sodium form

ResinTech CG16 is a 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 capacity is desired. Although CG16 can be regenerated, the high crosslinking makes multicycle use more difficult than with other lower crosslinked cation resins.

FEATURES & BENEFITS

- 16% divinylbenzene
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

REACH Registered

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

ResinTech® Inc.
INNOVATIONS IN ION EXCHANGE

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CG16

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size US Mesh (µm)	16 (1190) to 50 (297)
Minimum Sphericity (%)	93
Reversible Swelling	3 to 7% (Na → H)
Uniformity	Gaussian
Capacity (meq/mL)	2.40
Moisture Retention (%)	42 to 49
Color	Amber
Regenerable	Regenerable

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 to 50
Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

REGENERATION DETAILS

Salt Cycle (NaCl)	10 to 15%
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)
Regenerant 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	10-15 gals/cu.ft. (1-2 BV)
Rinse Flow Rate	Same as service flow
Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PACKAGING

Standard

1 cu.ft. Bag | 42 cu.ft. Supersack
5 cu.ft. Drum | 7 cu.ft. Drum

Metric

140L Drum | 200L Drum

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SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

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.

Safety Data Sheets (SDS) are available at resintech.com

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