CGS-H

Strong acid cation resin, styrene/DVB standard crosslinked gel, hydrogen form

ResinTech CGS-H is an amber-colored strong acid cation resin in hydrogen form. It is optimized for regeneration efficiency and high capacity. CGS-H is intended for demineralization of waters that do not contain significant chlorine residual.

FEATURES & BENEFITS

- Demineralization applications
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

- Demineralization

REACH Registered

Halal Certified

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

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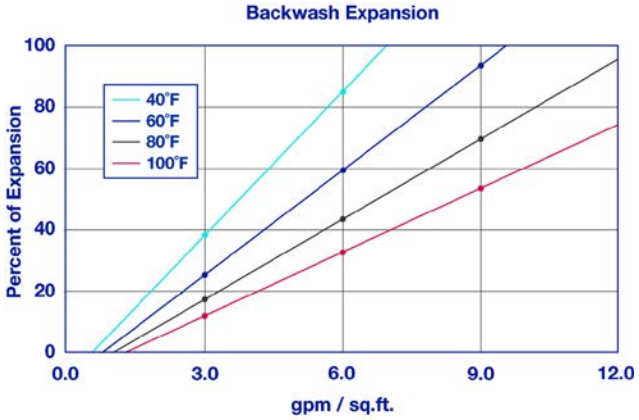
CGS-H

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Hydrogen (H^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size US Mesh (µm)	16 (1190) to 50 (297)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	91
Reversible Swelling	5 to 9% (Na → H)
Uniformity	Gaussian
Uniformity Coefficient	1.60
Capacity (meq/mL)	1.70
Moisture Retention (%)	40 to 52
Color	Amber
Regenerable	Regenerable

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CGS-H as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	265°F (129°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

Hydrogen Cycle (H2SO4)	1 to 8%
Hydrogen Cycle (HCl)	5 to 10%
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)

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PACKAGING

Standard

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

Metric

25L Bag | 140L Drum

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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