CG8

Strong acid cation resin, styrene/DVB 8% crosslinked gel, sodium form

ResinTech CG8 is a strong acid cation resin in the sodium form. It is amber in color and made from 8% crosslinked gel. It is a workhorse cation resin optimized for commercial/ industrial and residential softening applications that require good regeneration efficiency and oxidative stability. CG8 is intended for use in all commercial and industrial applications including both softening and demineralization.



FEATURES & BENEFITS

- Industrial softening and demineralizing applications
- Low color throw
- Superior physical stability

APPLICATIONS

- Industrial Demineralization
- Softening - Commercial
- Softening - Industrial
- Softening - Residential

Meets NSF/ANSI/CAN 44
Meets NSF/ANSI/CAN 61
Meets NSF/ANSI/CAN 372
REACH Registered
Kosher Certified
Halal Certified

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

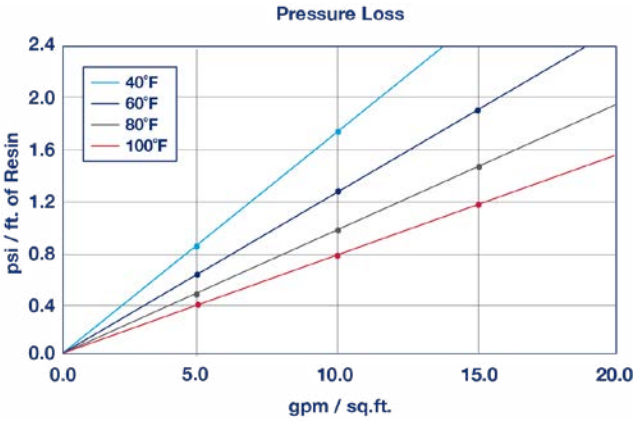
RESINTECH INC.
INNOVATIONS IN ION EXCHANGE
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Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size US Mesh (µm)	16 (1190) to 50 (297)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93

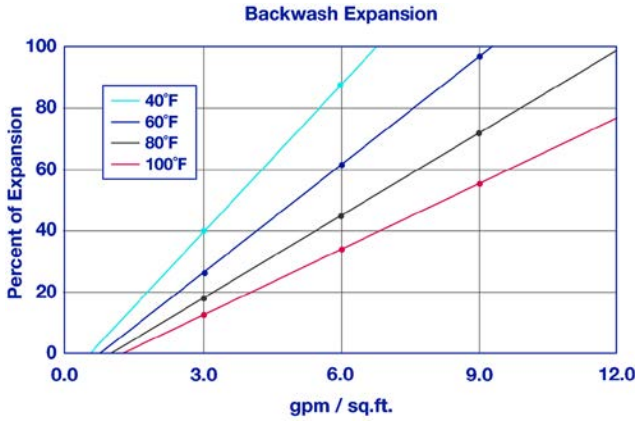
Reversible Swelling	5 to 9% (Na → H)
Uniformity	Gaussian
Uniformity Coefficient	1.60
Capacity (meq/mL)	2.00
Moisture Retention (%)	42 to 49
Shipping Weight	52 - 50 lbs/cu.ft. (833 - 801 g/L)
Color	Amber
Regenerable	Regenerable

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech CG8 per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CG8 as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

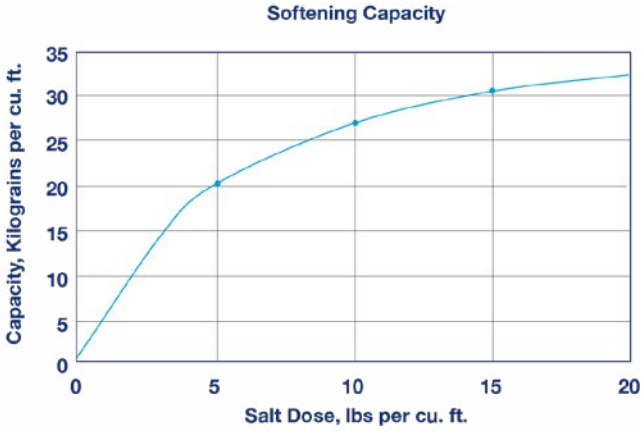
Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 to 50

Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

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SOFTENING



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as $CaCO_3$, 0.2% hardness in the salt and 10% brine concentration applied cocurrently through the resin over 30 minutes. No engineering downgrade has been applied.

IRON REMOVAL

CG8 has good capacity for ferrous iron. Iron content in the feedwater should not be more than 1 mg/L Fe per each 17 mg/L of hardness.

AMMONIA REMOVAL

ResinTech **CG8** is slightly selective for ammonia compared to sodium but hardness is much more preferred. Ammonia is not ionized at pH above 9 and is not well removed when the pH is significantly alkaline.

DEMINERALIZATION

See ResinTech **CG8-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

RELATED FILTERS

AF-XX-3003

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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.

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