PRODUCT SPECIFICATION SHEET

MAGNA

CG10-UPS

STRONG ACID CATION

UNIFORM PARTICLE SIZE
POLYSTYRENIC GEL
10% CROSSLINKED
SODIUM FORM

ResinTech CG10-UPS is a uniform particle-sized, premium-grade, strong acid cation resin in sodium form. It is amber in color and made from a 10% cross-linked gel. The uniform beads and smaller harmonic mean size yield minimal pressure loss and better regeneration efficiency compared to resins with Gaussian size distribution. It is intended for use in all industrial applications and is recommended for countercurrently regenerated systems such as packed beds.

APPLICATIONS

- Softening - Industrial
- Demineralization
- Packed Beds

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Sodium
Fuctional Group	Sulfonic Acid
Physical Form	Spherical Beads
Particle Size	20 to 40 US Mesh (400 - 841 µm)
% < 50 mesh (300µm)	< 0.5 % minus 50
Minimum Sphericity	95%
Uniformity Coefficient	1.25
Reversible Swelling	Na to H 4% to 8%
Temp Limit	280°F (138°C)
Capacity (meq/mL)	2.2
Moisture Retention	39% to 45%
Shipping Weight	52 - 54 lbs/ft³ (849 - 881 g/L)
Color	Amber
Regenerability	Yes
Uniform Particle Size	Yes

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

MADE IN AMERICA

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

Revision 1.0

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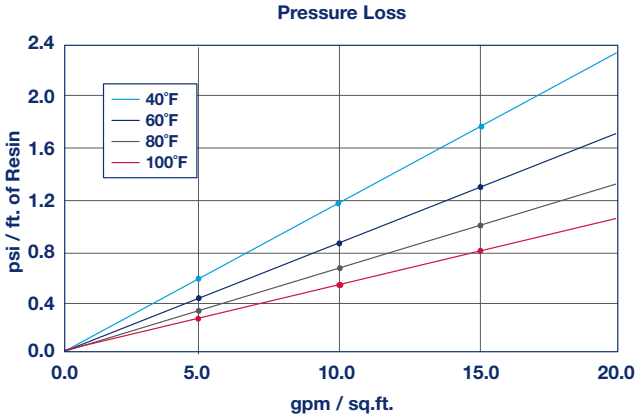

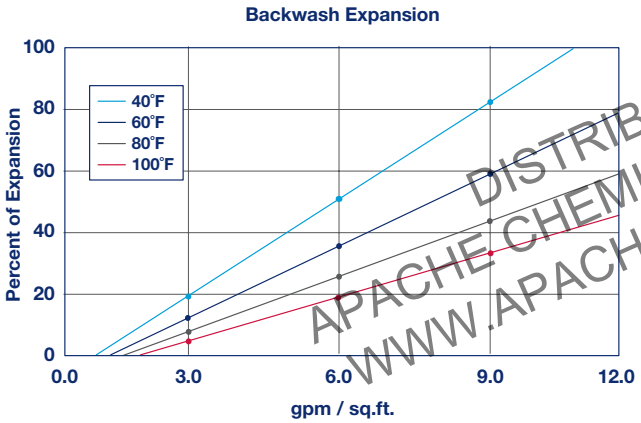

SOFTENING

CG10-UPS is a 10% crosslinked cation resin optimized for use in condensate softeners, high flow rate applications, and other appli- cations where high physical and chemical durability are more import- ant than high chemical efficiency. CG10-UPS is proven to have a long useful life, even in heavily chlorinated waters where other cation resins do not last.

PACKED BEDS

CG10-UPS has a very narrow particle size range. The uni- formity allows a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration and lower leakage. CG10-UPS is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cy- cle. Higher void space and minimal fine mesh beads provides low pres- sure loss and helps prevents channeling and other distribution prob- lems. Packed beds typically have limited freeboard (only a few inches with the resin in the swollen form).

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Sodium form	280˚F
Minimum bed depth	24 inches
Backwash expansion	25 to 50 percent
Maximum pressure loss	25 psi
Operating pH range	0 to 14 SU
Regenerant Concentration	
Hydrogen cycle	5 to 10 percent HCl
Hydrogen cycle	1 to 8 percent H_2S0_4
Salt cycle	10 to 15 percent NaCl
Regenerant level	4 to 15 lbs./cu.ft.
Regenerant flow rate.	0.5 to 1.5 gpm/cu.ft.
Regenerant contact time	>20 minutes
Displacement flow rate	Same as dilution water
Displacement volume	10 to 15 gallons/cu.ft.
Rinse flow rate	Same as service flow
Rinse volume	35 to 60 gallons/cu.ft.
Service flow rate	1 to 10 gpm/cu.ft.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums.
For operation outside these guidelines, contact ResinTech Technical Support

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