PRODUCT SPECIFICATION SHEET



UNIFORM PARTICLE SIZE
POLYSTYRENIC GEL
8% CROSSLINKED
SODIUM FORM

ResinTech CG8-UPS is a uniform particle size strong acid cation resin in sodium form. It is amber in color and made from 8% cross-linked gel. The uniform beads and somewhat 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 counter currently 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		Sulfopic Acid
Physical Form		Subjectical Beads "ON
Particle Size	DISTRIBUTE DISTRIBUTE CHEMICA APACHEC APACHEC	20 to 40 US Mesh (400 - 841 μm)
% < 50 mesh (300μm)	DISTIMICA	< 0.5% himus 50
Minimum Sphericity	CHEVIEC	95%
Uniformity Coefficient	CHERRACTION	1.25
Reversible Swelling	APRONN.AI	Na to Ca -5% to -3%
Temp Limit	Mar	280°F (138°C)
Capacity (meq/mL)		2.0
Moisture Retention		42% to 49%
Shipping Weight		51 - 53 lbs/ft³ (817 - 849 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



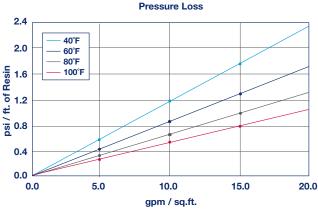


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STRONG ACID CATION

UNIFORM PARTICLE SIZE POLYSTYRENIC GEL 8% CROSSLINKED SODIUM FORM



SUGGESTED OPERATING CONDITIONS Maximum continuous temperature Soduri form Minimum bed depth Backwash expansion Maximum **Backwash Expansion** 100 40°F 60°F 80 Percent of Expansion 80°F 100°F 60 40 20 n 3.0 0.0 gpm / sq.ft.

SOFTENING

CG8-UPS is an 8% crosslinked cation resin optimized for industrial softening applications. CG8-UPS has higher total capacity than standard crosslinked resins such as CGS and has higher operating capacity when relatively large brine doses are used during regenera-tion. CG8-UPS is suitable for hot water applications and for waters that contain modest levels of chlorine.

PACKED BEDS

CG8-UPS has a very narrow particle size range. The unifor- mity allows a slightly smaller bead size to be used which results in fast- er exchange of ions, more efficient regeneration and lower leakage. CG8-UPS is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cycle. Higher void space and minimal fine mesh beads provide low pressure loss and helps prevent channeling and other distribution problems. Packed beds typically have limited freeboard (only a few inches with the resin in the

280°F 24 inches 25 to 50 percent 25 psi 0 to 14 SU

Service flow rate

5 to 10 percent HCI 1 to 8 percent H₂SO₄ Hydrogen cycle 10 to 15 percent NaCl Salt cycle 4 to 15 lbs./cu.ft. Regenerant level 0.5 to 1.5 gpm/cu.ft. Regenerant flow rate. 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.

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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1 to 10 gpm/cu.ft.