WACG

Weak acid cation resin, acrylic/DVB gel, hydrogen form

ResinTech WACG is a hydrogen form gel weak acid cation resin. It has exceptionally high capacity and can be regenerated at close to 100% acid efficiency but is limited to use in alkaline waters with pH greater than 7. WACG is intended for hardness removal from waters that contain significant alkalinity and for demineralization where the use of a weak acid cation resin is required.



FEATURES & BENEFITS

- High capacity
- High regeneration efficiency
- Superior physical stability
- Controlled particle size
- Complies with US FDA regulations

APPLICATIONS

- Metal Reduction
- Partial Alkalinity Reduction
- Partial Softening

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

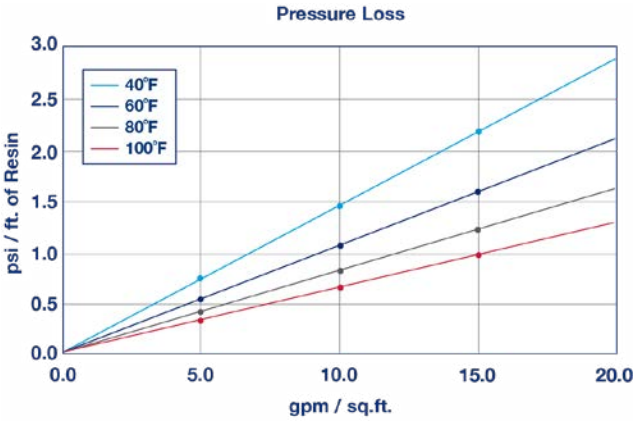
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WACG

Polymer Matrix	Acrylic/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Hydrogen (H^+)
Functional Group	Carboxylic 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	80 to 100% (H → Na)
Uniformity	Gaussian
Uniformity Coefficient	1.70
Capacity (meq/mL)	4.00
Moisture Retention (%)	43 to 60
Shipping Weight	49 - 47 lbs/cu.ft. (785 - 753 g/L)
Color	White to Cream
Regenerable	Regenerable

PRESSURE LOSS



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

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	212°F (100°C)
Minimum Bed Depth	24 in. (61.0 cm)
Flow Rate	
Working Service	Depends on fluid viscosity. Contact ResinTech

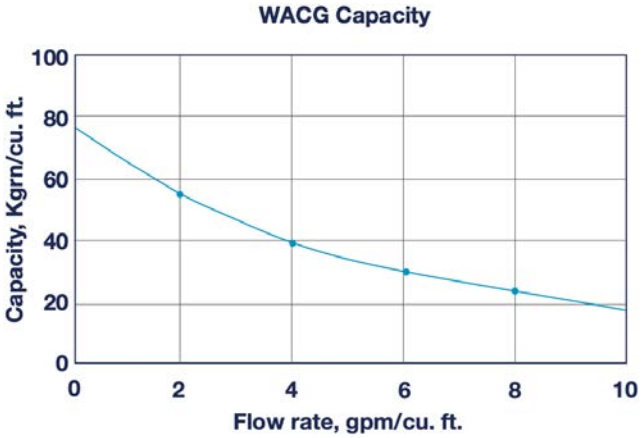
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SOFTENER AND DEALKALIZER

ResinTech **WACG** removes hardness from water by neutralizing alkalinity from HCO_3 to CO_2. The carbon dioxide can then be removed in a degassifier. For complete removal of hardness, a strong acid cation type softener is needed. For complete conversion of HCO_3 alkalinity to CO_2, a hydrogen form cation may be needed.

CASE 1: For hardness when alkalinity exceeds hardness. Or, for alkalinity when hardness exceeds alkalinity:



CASE 2: For alkalinity whenalkalinity exceeds hardness. Or, for hardness when hardness exceeds alkalinity:

Resin capacity is affected by flow rate and temperature. No engineering downgrade has been applied.

HIGH TDS SOFTENING

ResinTech **WACG** can be operated as a softener in the sodium cycle. Selectivity for hardness compared to sodium is 5 to 10 times higher than conventional softening resins. Regeneration requires acid followed by caustic, salt can not be used. Sodium form weak acid resins can be used to soften high TDS waters up to approximately 50,000 ppm.

METALS REMOVAL

See ResinTech **WACG-Na**.

REGENERATION DETAILS

Hydrogen Cycle (HCl)	1 to 5%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.3-1.5 gpm/cu.ft. (2-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 30 minutes	Rinse Volume	10-15 gals/cu.ft. (1-2 BV)
Displacement Flow Rate	Same as dilution water		

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PACKAGING

Standard

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

Metric

140L Drum | 200L 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.

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