

ZGC110

Strongly Acidic Cation Exchange Resin

PRODUCT DESCRIPTION

“Zheng Guang” Brand ZGC110 is a bead form polystyrene sulphonate cation exchange resin containing 10% DVB. It has excellent physical and chemical properties such as high capacity and operating capacity, lower pressure drop, well physical and chemical stability. The product is supplied in the sodium or hydrogen forms. ZGC110 is used in all water softening, deionization, preparation of pure water and ultra-pure water, food industry, and chemical processing applications.

FEATURES & BENEFITS

- **COMPLIES WITH USDA REGULATIONS FOR TOTABLE WATER SYSTEMS**
Meets standards for use in systems operating under the Federal meat and poultry products inspection program.
- **UNIFORM PARTICLE SIZE, LOW PRESSURE DROP**
95% of beads are in the range from 16 to 45 mesh; giving a lower pressure drop.
- **SUPERIOR CHEMICAL AND PHYSICAL STABILITY**
High sphericity and high crush strengths together provide greater resistance to bead breakage.

ITS PHYCIAL & CHEMICAL PROPERTIES

Appearance		Clear spherical beads
Polymer Matrix Structure		Styrene - DVB
Type		Gel strong acid
Functional Group		$R-(SO_3)M^+$
Ionic Form		Na^+
Moisture Content	%	38 - 45
Capacity in Volume	mmol/ml	≥ 2.1
Shipping Weight	g/ml	0.77 - 0.87
Density	g/ml	1.28~1.34
Granularity(0.315-1.25mm)	%	≥ 95
Effective Particle Size Range	mm	0.40 - 0.60
Uniformity Coefficient		≤ 1.60
Swelling (Na→H)	%	≤ 10
Whole Spherical Rate After milling	%	≥ 90

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SCREEN SIZE RANGE

ZGC110	0.315 – 1.25 mm	50 – 16 mesh
ZGC110MB	0.5-1.25 mm	35-16 mesh
ZGC110SC	0.6~1.25 mm	30-16 mesh

SUGGESTED OPERATING CONDITIONS

pH Range	1 – 14	
The High Temperature °C	≤ 120 (For Na Form)	≤ 100 (For H Form)
Total Capacity mmol/L	≥ 1200	
The Bed high m	1.0 – 3.0	
Regenerant	NaCl	HCl
Regenerant Level g/mol	100-120	70-80
Regenerant Concentration %	5 - 8	3-4
Regenerant Flow Rate m/h	4 - 5	3-5
Regenerant Temperature °C	Normal Temperature	
Regenerant Contact Time min	> 30	
Exchange Flow Rate m/h	4 - 5	3-5
Exchange Time min	20 - 30	
Rinsing Flow Rate m/h	15 - 20	
Rinsing Time min	10 - 20	
Operating Flow Rate m/h	15 - 30	

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APPLICATIONS

ZGC110 strong acid cation exchange resin is widely used in water softening and preparation of pure water, hydro-metallurgy, sugar refining, production of glutamic acid. It can be as dehydrating agent and catalysts.



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