



D113 H⁺

Weak Acid Cation Exchange Resin

D113 H⁺ resin is in a carboxylic acid on the pore structure of acrylic copolymer (-COOH) group - cation exchange resin. Mainly used in industrial water treatment, especially the removal of bicarbonate, carbonate and other alkaline salt, also can be used for zinc, nickel waste recycling, separation and purification of biochemical drugs, etc.

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Name	Specification
Appearance	light yellow transparent spherical beads
Polymer Structure	Polyacrylic
Functional Group	-COOH
Ionic Form as shipped	H ⁺
Weight Exchange Capacity	≥10.80mmol/g Dry
Volume Exchange Capacity	≥4.40mmol/ml
Specific Gravity	1.14-1.20g/ml
Shipping Weight	0.72-0.80g/ml
Moisture Retention	45%-52%
Particle Size Range	0.315~1.25 mm≥95%
Reversible Swelling	Na ⁺ → H ⁺ ≤70%
Temperate Limit	H100°C, Na120°C
Sphere rate after abrasion	≥95%

Reference Operation Conditions

Maximum operating temperature	120°C
Resin filling height	1~3m
Operating velocity	2~10BV/h
Backwash velocity	4~10BV/h
Regeneration (desorption) velocity	1~2BV/h
Regeneration agent	2BV3~5%HCl; 2BV2~4% NaOH

*Specifications and typical properties are listed for informational purposes only and not to be used as purchase specifications.

Application

- Water softening
- Zinc, nickel waste recycling
- The separation and purification of biochemical drugs