Strong Base Anion Exchange Resin

201X8 OH-

201X8 OH- is a anion exchange resin is a polystyrene matrix gel type strong basic anion exchange resin, containing -N (CH3) 3, equivalent to the solid alkali.Has a high exchange capacity and good mechanical strength.Mainly used for the preparation of pure water, wastewater treatment, biochemical products and hydrometallurgy extraction of gold, silver, tungsten, molybdenum and other metals..

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Name	Specification
Appearance	White to pale yellow clear spherical beads
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Functional Group	$-N(CH_3)_3$
Ionic Form as shipped	OH^-
Weight Exchange Capacity	≥3.6mmol/g
Volume Exchange Capacity	≥1.3mmol/ml
Real Density (g/ml）	1.06-1.09g/ml
Bulk Density (g/ml)	0.66~0.71g/ml
Water Retention Capacity	53%~47%
Particle Size Range	0.315~1.25 mm≥95
Uniformity Coefficient	≤1.6
Whole Bead Count（%）	≥95%

Reference Operation Conditions

Maximum operating temperature	100℃
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%HCI，2BV2~4% NaOH

Application

- used for preparation of pure water
- wastewater treatment

Precautions

- Resin should be wet state preservation. The best temperature is above 0℃. Resin should be put into a closed space or add in salt water of 5% or above if not used for a long time.Should be anti-freezing during transportation. Do not place heavy objects on the resin in case being crashed.
- Generally requires alkali- water - acid - water flow path for processing. Strict requirement needs three circulation before coming to final ion kenel.
- Need to consider different transformation expansion rate to set aside enough space to prevent resin overflow and ensure the appropriate liquid level height; Column diameter ratio should be within a reasonable range and avoid bias current; Use wet packed column or back-flushing to wash away bubbles inside resin layer.
- Before liquid going into the resin column, steps as flocculation, filtration, or sand-filtration should be taken so that it doesn't jam resin pore with suspended solids .
- Resin inside the column that hasn't been used for a long time should be storaged outside of the column after washing, or adding salt water in the salt resistant medium while keeping liquid level not dehydrated with usual backwashing to loosen resin in case of agglomeration.