

# **Strong Base Anion Exchange Resin**

### 201X4

201X4 is a polystyrene matrix gel type strong basic anion exchange resin, containing -N (CH3)<sub>3</sub>, equivalent to the solid alkali. With high mass full Exchange capacity and good mechanical strength.

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Name	Specification
Appearance	Pale white to pale yellow clear spherical beads
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Functional Group	-N(CH <sub>3</sub> ) <sub>3</sub>
Ionic Form as shipped	Cl <sup>-</sup>
Weight Exchange Capacity	≥3.7mmol/g
Volume Exchange Capacity	$\geq 1.10 mmol/ml$
Real Density (g/ml)	1.06-1.10g/ml
Bulk Density (g/ml)	0.66~0.71g/ml
Water Retention Capacity	50%~60%
Particle Size Range	0.315~1.25 mm≥95
Uniformity Coefficient	≤1.6
Whole Bead Count (%)	≥95%

## **Reference Operation Conditions**

Maximum operating temperature	OH40℃, CH00℃
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**

- Antibiotics extraction
- Water treatment
- Preparation of purity water

## **Corresponding Brands**

- Amberlite IRA-401
- Diaion SA

#### **Precautions**

- Resin should be wet state preservation. The best temperature is above 0°C. 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.