Resinex[™] NC-21 Strong base anion exchange resin

Resinex[™] NC-21 is a strongly basic gel-type anion exchange resin which is supplied highly regenerated and specially pretreated to meet the stringent specifications of the nuclear industry. The crosslinked polystyrene divinylbenzene matrix provides excellent resistance to physical breakdown. The high operating capacity of Resinex[™] NC-21 will provide an ultra-pure process water and will exceed the requirements of the nuclear industry for low ion leaching in one-time-use application. The low content of eluable chloride ions makes this product highly suitable for pressure water reactor applications at all standard concentrations of boric acid.

Typical Properties

| Туре | Crosslinked polystyrene divinylbenzene |
|------------------------------|--|
| Form | Gel-type, amber, spherical beads |
| Functional group | Quaternary amine, Type 1 |
| Whole bead count | 95% min. |
| lonic form, as shipped | OH |
| Bead size | 16x40 US mesh (0.42-1.25 mm) |
| Effective size | 0.45 - 0.75 mm |
| Bulk density | 690 kg/m³ |
| Real density | 1.07 g/cm ³ |
| Water retention | 52-60% |
| Total capacity | 1.10 eq/l min. |
| Storage temperature | 0-40°C |
| Stability, pH | 0-14 |
| Regenerant level, as shipped | 95% min. |

Standard Design Conditions

| Bed depth | >600 mm |
|-----------------------|--------------------|
| Operating temperature | 60°C max. |
| Chloride content | 0.3% max. |
| Sulfate content | 0.2% max. |
| Pressure drop | 0.20 kPa*h/m² max. |

Key Features and Benefits

• Specially Pretreated Suitable for preparation of ultra-pure water

Ion Exchange Resin

- High Integrity Beads
 Excellent resistance to mechanical
 degradation ensures low pressure drop
- Low Content Of Eluable Chloride Specified in pressure water reactors at all common concentrations of boric acid
- High Regeneration Level Enables an extended running capacity in one-time-use applications
- Low Ion Leakage Very low ion leakage during service run

Typical Applications

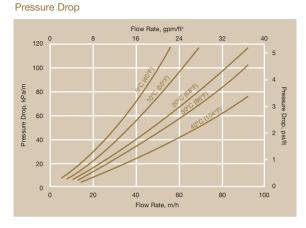
- Ultra-pure water
- Radioactive waste water treatment
- Demineralisation and polishing when used in combination with Resinex[™] NC-10 in nuclear power plants.

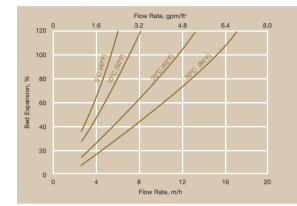
Standard Packaging

- 25 lit. PE valve bags
- 1000 lit. big bags









Backwash Expansion

Product Packaging



25 lit. polyethylene valve bags,48 bags per pallet



Polypropylene FIBCs (big bags), 1000 lit.



CARBONS

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