Resinex™
Ion Exchange Resin

Resinex™ NC-3010

Mixed bed ion exchange resin

Resinex™ NC-3010 is a ready-to-use mixed bed resin of a strong acid cation and a strong base anion gel-type resin with an equivalent ratio of 1:1. The product is 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-3010 will provide an ultra-pure process water and will exceed the requirements of the nuclear industry for low ion leaching in one-time-use applications. 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

Type	Crosslinked polystyrene divinylbenzene
Form	gel-type, amber, spherical beads
Functional group	Sulfonic acid/quaternary amine
Whole bead count	95% min.
Ionic form, as shipped	H^+/OH^-
Bead size	16x40 US mesh (0.42-1.25 mm)
Effective size	0.45 - 0.75 mm
Bulk density	720 kg/m^3
Real density	1.14 g/cm^3
Water retention	55-68%
Total capacity	1.00 eq/l min.
Storage temperature	0-40ºC
Regeneration level H^+, as shipped	99% min.
Regeneration level OH^-, 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, max.	0.20 kPa*h/m^2

Key Features and Benefits

- **Specially pretreated**
  Suitable for preparation of ultra-pure water
- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures low pressure drop
- **Extended Operating Capacity**
  Economical advantage
- **Outstanding Regeneration Level**
  Enables a high running capacity in one-time-use applications
- **Low Content Of Eluable Chloride**
  Specified in pressure water reactors at all common concentrations of boric acid

Typical Applications

- Ultra-pure water
- Radioactive waste water treatment
- Demineralisation and polishing in nuclear power stations.

Standard Packaging

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

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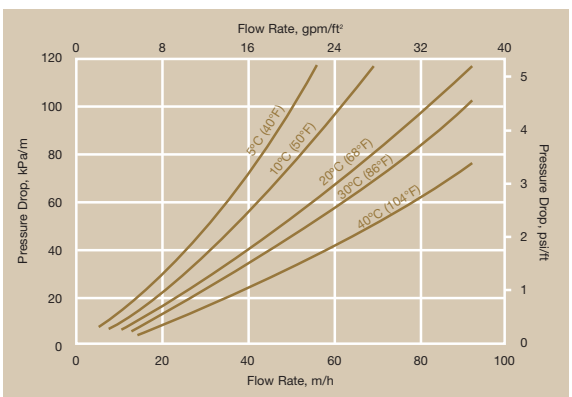
Pressure Drop



Product Packaging

25 lit. polyethylene valve bags,
48 bags per pallet

Polypropylene FIBCs
(big bags), 1000 lit.

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Jacobi CARBONS

RX-NC-3010-A-EN