

Resinex™ CH-20

Weak acidic cation exchange resin

Resinex™ CH-20 is a high purity, premium grade, weakly acidic macroporous type cation exchange resin with Iminodiacetic acid groups. This product is especially designed to be used in industrial applications for the selective extraction of heavy metal cations in the following order:

Cu - Va - U - Pb - Ni - Zn - Cd - Fe - Be - Mn - Ca - Mg - Sr - Ba - Na

Resinex™ CH-20 offers a superior mechanical and chemical resistance which guaranty an economical advantage and an extended lifetime.

Typical Properties

| | |
|--------------------------|-------------------------------------------|
| Type | Crosslinked polystyrene divinylbenzene |
| Form | macroporous, milky white, spherical beads |
| Functional group | Iminodiacetic acid |
| Whole bead count | 95% min. |
| Ionic form, as shipped | Na ⁺ |
| Bead size | 0.42 - 1.25 mm |
| Uniformity coefficient | 1.60 max. |
| Bulk density, as shipped | 750 kg/m ³ |
| Real density | 1.15 g/cm ³ |
| Water retention | 50 - 60% |
| Total capacity | Chelated Cu - 0.60 eq/l min. |
| Stability, temperature | 0-80°C |
| Stability, pH | 0 - 14 |

Standard Design Conditions

| | |
|-------------------|--------------|
| Bed depth | > 1.000 mm |
| Service flow rate | 15 - 45 BV/h |
| pH work range | 2 - 12 |

Key Features and Benefits

- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures low pressure drop
- **High Selectivity For Heavy Metals**
Separation of heavy metal cations from solutions containing calcium and sodium
- **High Operating Capacity**
Economical advantage
- **Resistance To Osmotic Shock**
Extended lifetime and very low number of broken beads

Typical Applications

- Selective removal of heavy metals in the metal surface finishing industry
- Recovery of metals in the electroplating industry
- Softening of brine solution in the Chloro-alkali electrolysis

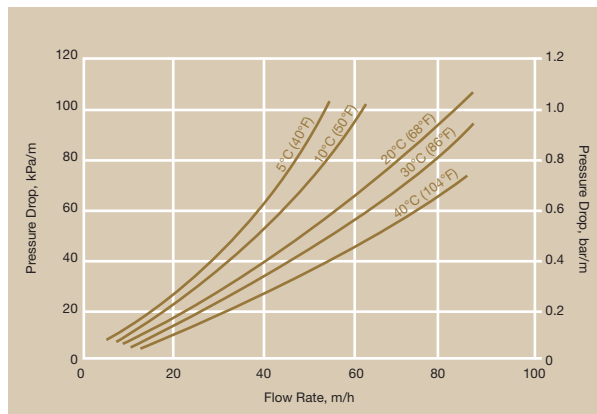
Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag

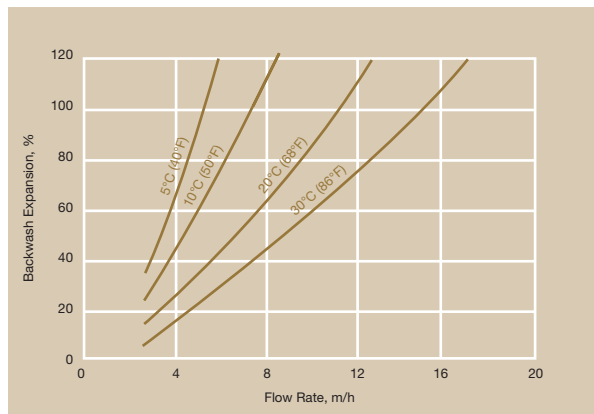
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

HCl

| | |
|--------------------------|-------------|
| Concentration | 5-10% |
| Level | 120-155 g/l |
| Flow rate regenerant | 5 m/h |
| Flow rate slow rinse | 5 m/h |
| Backwash expansion | 80% min. |
| Backwash linear velocity | 10 m/h |

Product Packing



25 lit. polyethylene valve bag
48 bags per pallet



Polypropylene FIBCs
(big bag), 1.000 lit.



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CAUTION Strong oxidizing agents such as nitric acid can react violently with ion exchange resins and cause explosive type reactions. Before using strong oxidants, consult sources knowledgeable in the handling of these materials.



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