

Resinex™ CH-23

Weak acidic cation exchange resin

Resinex™ CH-23 is a high purity, premium grade, weakly acidic macroporous type cation exchange resin with chelating groups. This product is 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

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	1.20 g/cm ³
Water retention	50 - 60%
Total capacity	Chelated Cu - 0.60 eq/l min.
Stability, temperature	0-90°C
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 1.000 mm
Service flow rate	15 - 45 BV/h
Backwash expansion	50 - 75%

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
- Removal of heavy metals from ground water

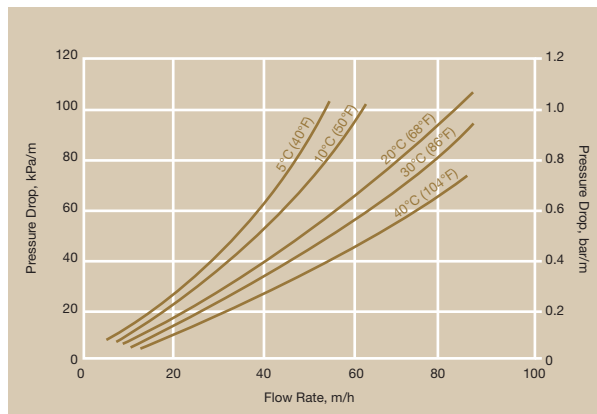
Standard Packaging

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

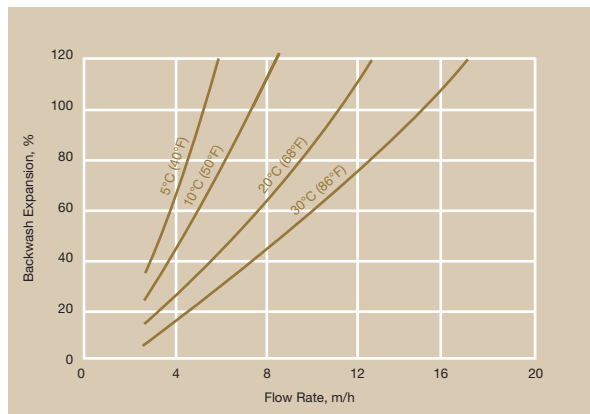
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

HCl

H₂SO₄

Concentration	7.5%	10%
Level	145 g/l	215 g/l
Flow rate regenerant	5 m/h	5 m/h
Flow rate slow rinse	5 m/h	5 m/h
Backwash expansion	60% min.	60% min.
Backwash linear velocity	10 m/h	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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