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 (H^+ form)	2.20 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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UNITED KINGDOM +44 1942 670600. **UNITED STATES** +1 215 546 3900. **EMAIL** INFO@JACOBI.NET. **WEB** WWW.RESINEX-IXR.COM, WWW.JACOBI.NET

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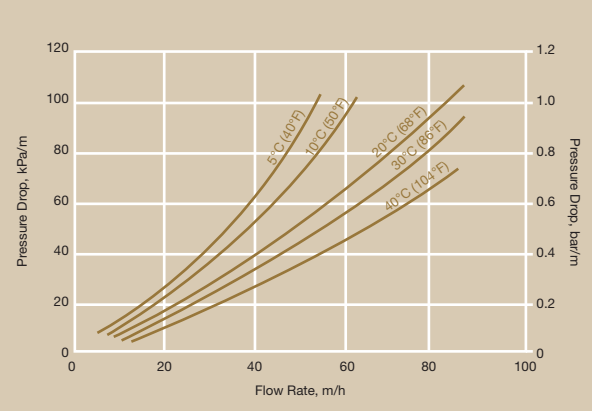
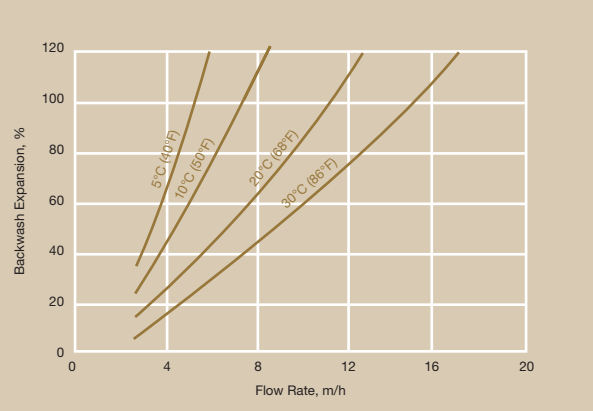
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	HCl	H_2SO_4
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

NOTICE If this product is to be used for potable water treatment, or any food grade application, a special procedure must be applied for the initial run. Please ask your nearest Jacobi office for this technical bulletin.

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

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.

For more information or to contact Jacobi visit: www.resinex.jacobi.net

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Jacobi
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