

# Resinex™ CH-20 UB

## Weak acidic cation exchange resin

**Resinex™ CH-20 UB** 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 UB** offers a superior mechanical and chemical resistance which guaranty an economical advantage and an extended lifetime. The uniform bead size distribution ensures high performance and a very low pressure drop.

### 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 <sup>+</sup>
Bead size	(90% min.) 0.50 - 0.71 mm
Uniformity coefficient	1.20 max.
Bulk density, as shipped	750 kg/m <sup>3</sup>
Real density	1.15 g/cm <sup>3</sup>
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 Uniform 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

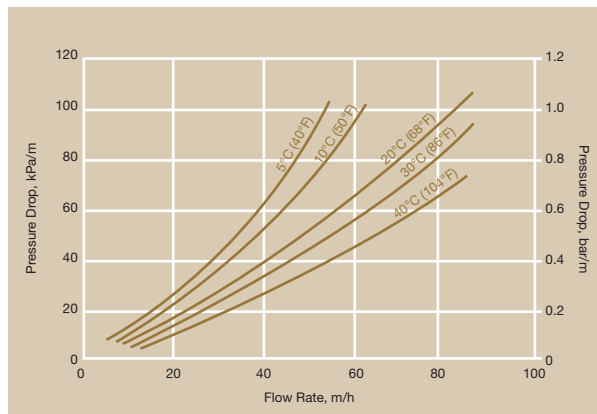
### Standard Packaging

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

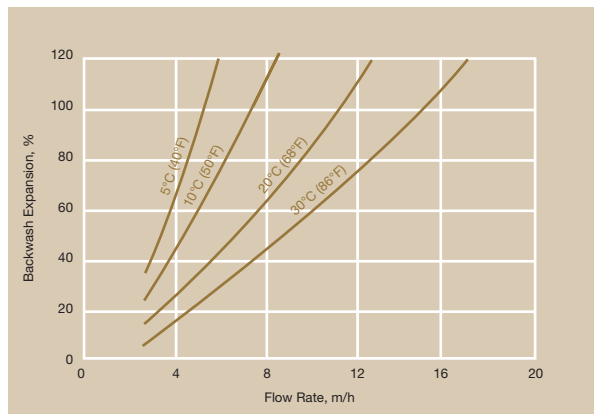
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### Pressure Drop



### 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.



**NOTICE** Jacobi Carbons reserves the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for the customers use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

**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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**Resinex™**