

# Resinex™ TPX-4500

## Strong base anion exchange resin

**Resinex™ TPX-4500** is a high purity, pre-washed, premium grade, strongly basic macroporous-type anion exchange resin. The high porosity of the acrylic matrix allows a complete removal of high molecular organics and therefore **Resinex™ TPX-4500** is chiefly developed to be used as an organic scavenger and/or for decolorization as an adsorbing resin.

### Typical Properties

Type	Crosslinked polyacrylic divinylbenzene
Form	Macroporous, milky white, spherical beads
Functional group	Quarternary ammonium, Type 1
Whole bead count	95% min.
Ionic form, as shipped	Cl
Bead size	(≥ 90%) 0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	700 kg/m <sup>3</sup>
Real density	1.06 g/cm <sup>3</sup>
Total capacity	0.80 eq/l min.
Water retention	65 - 75%
Stability, temperature	80°C
Stability, pH	0-14

### Standard Design Conditions

Bed depth	>750 mm
Service flow rate	8-40 BV/h
Backwash expansion	50-75%

### Key Features and Benefits

- **High Integrity Beads**  
Excellent resistance to mechanical degradation ensures low pressure drop
- **Excellent Resistance To Organic Fouling**  
Removable organics
- **Resistance To Osmotic Shock**  
Longer lifetime and very low number of broken beads
- **Low Extractables - AP 2004 (3) Compliance**  
Specially treated to eliminate leaching of organic matter, assuring compliance with European Resolution AP 2004 (3)

### Typical Applications

- Organic scavenger in front of ion exchanger resins
- Decolorization of sugar
- Deacidification of thin juice and whey

### Standard Packaging

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

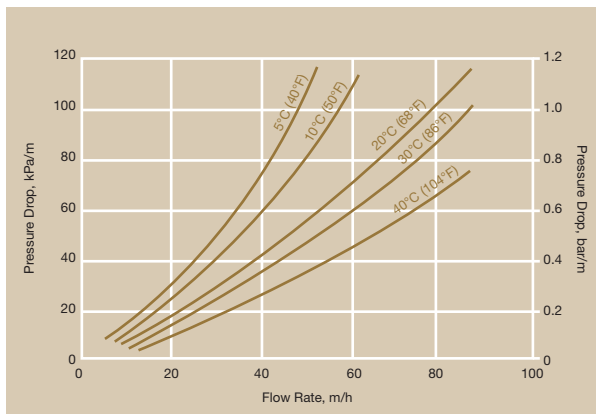


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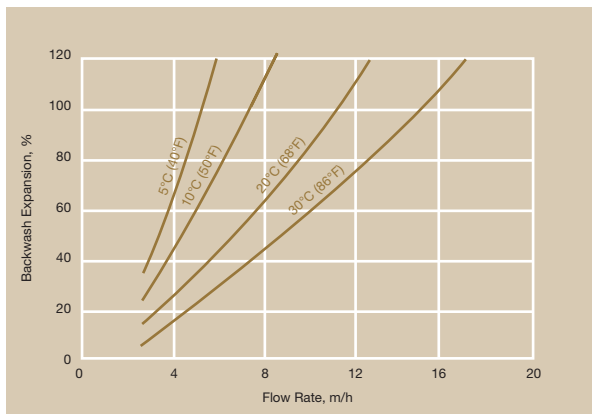
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### Pressure Drop



### Backwash Expansion



**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.



**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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