Resinex™ TPX-4510

Weak base anion exchange resin

Resinex™ TPX-4510 is a high purity, premium grade, gel-type, weakly basic anion exchange resin. The high total capacity, the excellent mechanical and chemical stability makes it suitable for demineralisation processes for various liquid solutions applications. Resinex™ TPX-4510 offers a high, reversible, capacity to remove organic matters, and therefore it is used to protect the system from organic fouling.

Typical Properties

Type	Crosslinked polyacrylic divinylbenzene
Form	Gel-type, milky translucent, spherical beads
Functional group	Tertiary amine
Whole bead count	95% min.
Ionic form, as shipped	Free base
Bead size	(≥ 90%) 0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	700 kg/m^3
Real density	1.06 g/cm^3
Total capacity	1.60 eq/l min.
Water retention	45 - 64%
Stability, temperature	25°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
- **Very High Total Capacity**
- **Resistance To Osmotic Shock**
  Longer lifetime and very low number of broken beads

Typical Applications

- Organic scavenger in front of ion exchanger resins
- Demineralisation of water and organic solutions

Standard Packaging

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

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Resinex™
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Ion Exchange Resin

Resinex™ TPX-4510

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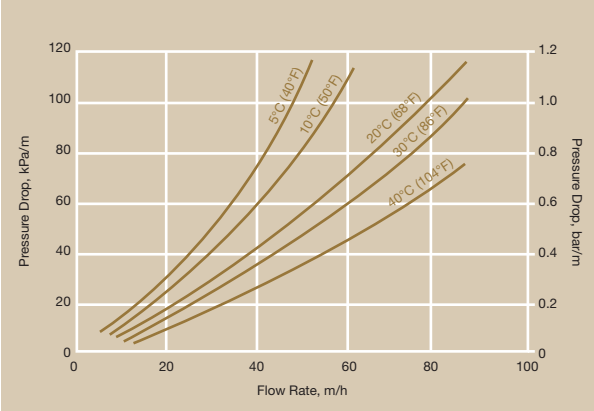
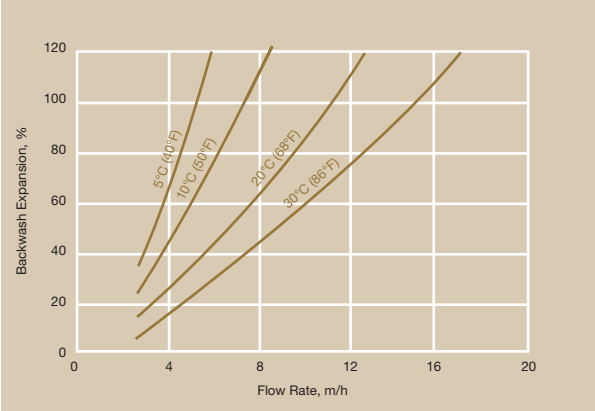
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Counter-Flow
Concentration	2-4% NaOH
Level	45-60 g/l
Flow rate regenerant	2-8 BV/h
Contact time regenerant	30-50 min.
Flow rate slow rinse	2-8 BV/h
Slow rinse water required	2 BV
Flow rate fast rinse	10-30 BV/h
Fast rinse water required	4-10 BV

The use of a weak base solution such as ammonia or sodium carbonate as a regenerant is an alternative to caustic soda. Please contact your nearest Jacobi Carbons sales office for further information.

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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