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Resinex™
Ion Exchange Resin

Resinex™ TPX-9002

Ion exchange resin for Arsenic Removal

Resinex™ TPX-9002 is especially developed ion exchange resin to remove Arsenic from tap-, waste- and groundwater. Due to the extremely high specific surface, Resinex™ TPX-9002 offers a removal of high quantities of Arsenic. In addition, Resinex™ TPX-9002 is also used for the removal of Antimon, Phosphate, Silica and similar elements.

Typical Properties

Type	Polystyrene-divinylbenzene-copolymer
Form	spheric
Color	red - brown
Functional group	not applicable
Bead size	(≥ 90%) 0.30-1.30 mm
Arsenic capacity	0.5-4.0 g/l
Bulk density, as shipped	780 kg/m^3
Storeability, temperature	10-80°C

Key Features and Benefits

- **High mechanical resistance**
  Faster backwashing after initial fill
- **Low apparent density**
  High adsorption capacity by weight
- **Excellent performance**
  Remarkable adsorption capacity compared to active alumina

Typical Applications

- Arsenic removal for residential water preparation
- Arsenic removal in waste water applications
- Antimon, Phosphate removal

Standard Design Conditions

Bed depth	>1000 mm
Flow rate	max. 20 BV/h
Linear velocity, backwashing (20°C)	10-15 m/h
Backwash expansion	20%
pH-range	4.5-8.5
Temperature	max. 80°C

Standard Packaging

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

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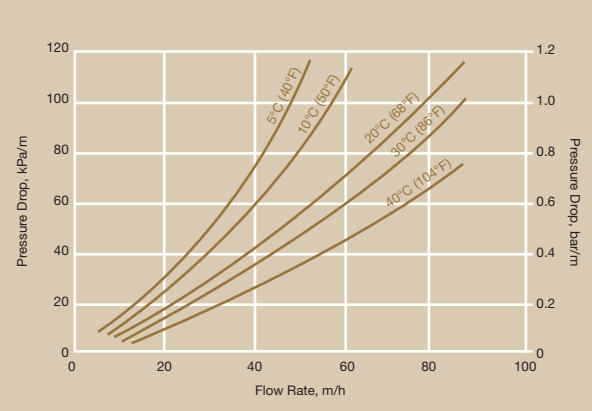
Pressure Drop



Standard Regeneration Parameters	Standard	Alkali sensitive solutions additional step
Concentration	2% NaOH+10% NaCl	1% acid (e.g. citric acid)
Level	4 BV	4 BV
Flow rate regenerant	2 BV/h	2 BV/h
Contact time regenerant	30 min.	30 min.
Flow rate slow rinse	4-6 BV/h	6-8 BV/h
Slow rinse water required	pH < 10	pH > 5

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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