Resinex™
Ion Exchange Resin

Resinex™ CAT-50

Strong base anion exchange resin for catalysis

Resinex™ CAT-50 is a high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for chemical processing - removal of mercaptan sulphur from hydrocarbon streams - and catalysis (organic reactions of polar molecules).
The selected bead distribution of Resinex™ CAT-50 - very close to monodisperse - results a low pressure drop and an optimal packed bed.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	gel-type, white, spherical beads
Functional group	Quarternary Ammonium, Type 1
Whole bead count	95% min.
Ionic form, as shipped	Cl^-
Bead size	(≥ 90%) 0.50 - 0.71 mm
Uniformity coefficient	1.20 max.
Bulk density, as shipped	670 kg/m^3
Real density	1.06 g/cm^3
Water retention	50 - 56%
Total capacity (Cl^- form)	1.30 eq/l min.
Volume change $Cl^- \rightarrow OH^-$	30% max.
Stability, temperature	40°C (OH^- Form) max.
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 750 mm
Service flow rate	8 - 55 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures low pressure drop
- **Resistance To Osmotic Shock**
  Extended lifetime and very low number of broken beads
- **Uniform Bead Size**
  Lower pressure drop

Typical Applications

- Removal of Mercaptan sulphur in chemical processing
- Catalysis: Organic reactions of small polar molecules

Standard Packaging

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

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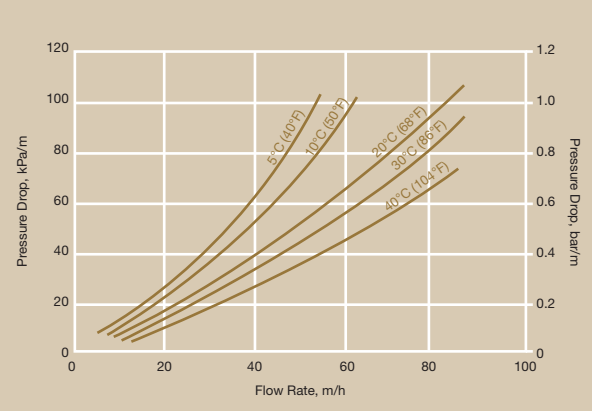
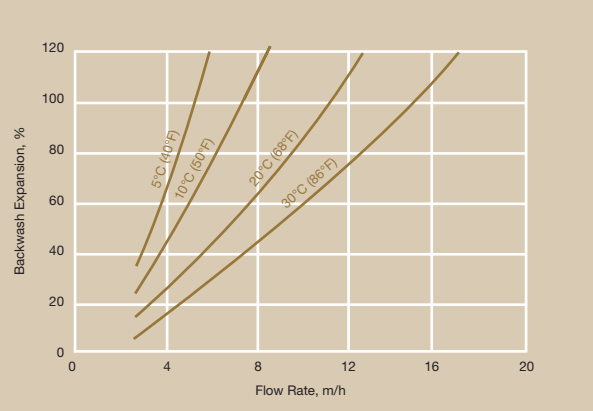
Pressure Drop



Backwash Expansion



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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Jacobi

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