Resinex™
Ion Exchange Resin

Resinex™ CAT-4

Strong acid cation exchange resin for catalysis

Resinex™ CAT-4 is a high purity, premium grade, strongly acidic macroporous-type cation exchange resin in spherical bead form, specially designed as a heterogeneous catalyst for the hydrolysis of di - and polysaccarides to pentoses or hexoses (e.g. starch to glucose, lactose to galactose,...)
The macroporous matrix offers a high mechanical stability, the extended capacity and the special pore structure enables Resinex™ CAT-4 to be used in polar and non-polar media and for base adsorption in aqueous and organic liquids.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	macroporous, opaque, spherical beads
Functional group	Sulfonic acid
Whole bead count	95% min.
Ionic form, as shipped	H^+
Bead size	(≥ 90%) 0.45 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	800 kg/m^3
Real density	1.25 g/cm^3
Water retention	50 - 60%
Total capacity	1.80 eq/l min.
Surface area (BET)	40-50 m^2/g
Pore diameter	300-400 Å
Stability, temperature	120°C
Storage, temperature	4-50°C
Stability, pH	1-14
Storability	2 years
Storage condition	under roof, dry

Key Features and Benefits

- High Integrity Beads
  Excellent resistance to mechanical degradation ensures low pressure drop
- Extended Operating Capacity
  Economical Advantage
- Special Pore Structure
  Enables the usage for organic liquids

Typical Applications

- Hydrolysis of starch, cane sugar and polysaccharides

Standard Packaging

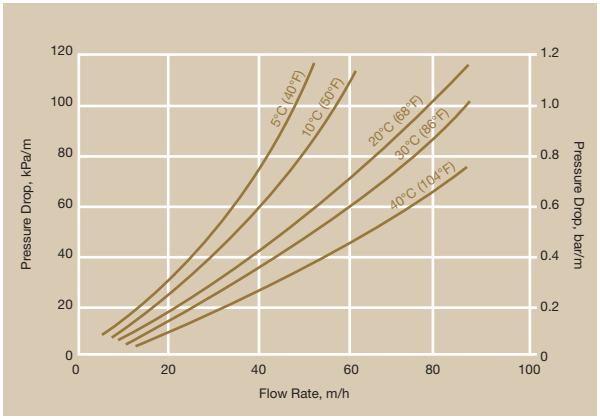
- 25 lit. PE valve bag
- 1000 litre big bag

Resinex™
Ion Exchange Resin

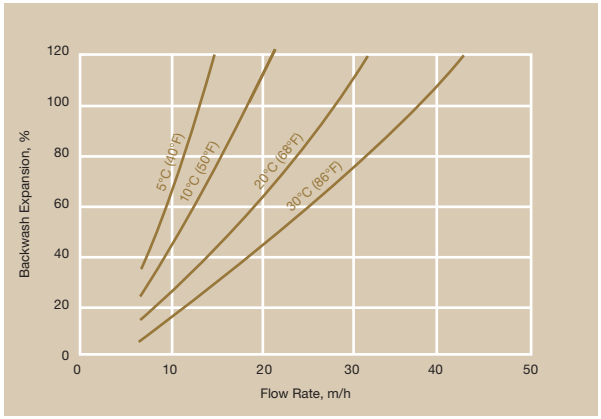
Resinex™ CAT-4

Strong acid cation exchange resin for catalysis

Pressure Drop



Backwash Expansion



Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

LENNTECH
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

Jacobi

WORLDWIDE DISTRIBUTORS A diverse network of agents, strategically located around the world