Resinex™
Ion Exchange Resin

Resinex™ HM-79-7

Strong base anion exchange resin

Resinex™ HM-79-7 is a high purity, premium grade, strongly basic, high cross-linked, gel-type anion exchange resin type 1, specially designed for the extraction of gold in cyanide and thiosulfate processes. The product is a bead type, crosslinked polystyrene-divinylbenzene copolymer resin that offers a good resistance to physical and mechanical breakage and organic fouling.
The selected bead size distribution of Resinex™ HM-79-7 ensures a low pressure drop during the service run.

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	0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	700 kg/m^3
Real density	1.08 g/cm^3
Water retention	42 - 46%
Total capacity (Cl^- form)	1.40 eq/l min.
Volume change $Cl^- \rightarrow OH^-$	25% max.
Stability, temperature	60°C max.
Stability, pH	0 - 14

Key Features and Benefits

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

Typical Applications

- Gold recovery

Standard Packaging

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

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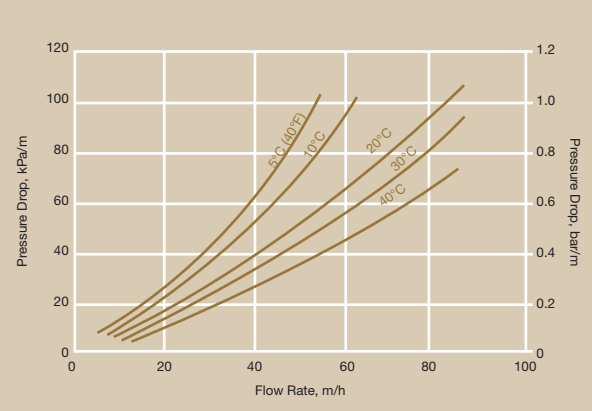
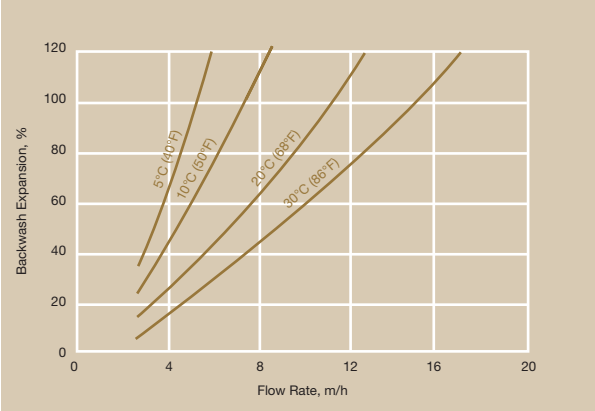
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
Concentration	4% NaOH	2% NaOH
Level	70-100 g/l	50-80 g/l
Flow rate regenerant	4-6 BV/h	6-8 BV/h
Contact time regenerant	30-60 min.	20-40 min.
Flow rate slow rinse	4-6 BV/h	6-8 BV/h
Slow rinse water required	2-4 BV	2 BV
Flow rate fast rinse	10-30 BV/h	10-30 BV/h
Fast rinse water required	6-10 BV	6-10 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.

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Jacobi
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