

Resinex™ HM-92-4 UB

Strong base anion exchange resin

ResinexTM HM-92-4 UB is a high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for the extraction of Uranium in the RIP process. 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 uniform bead size of ResinexTM HM-92-4 UB ensures a low pressure drop during the service run and ensures a maximum performance of the process.

Typical Properties

Туре	Crosslinked polystyrene divinylbenzene
Form	gel-type, white, spherical beads
Functional group	Quarternary Ammonium, Type 1
Whole bead count	95% min.
lonic 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 ⁻ -> SO ₄	10% 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 Uranium
- Selected Bead Size Low pressure drop
- Resistance To Osmotic Shock
 Extended lifetime and very low number of broken beads

Typical Applications

• Uranium recovery by RIP process

Standard Packaging

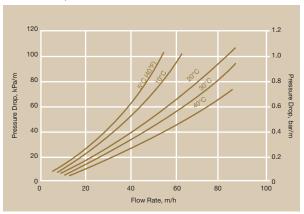
- 25 lit. PE valve bag
- 1000 litre big bag



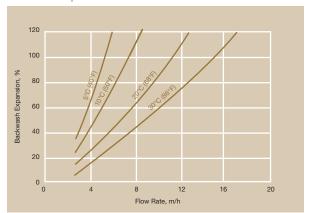


Resinex™ HM-92-4 UB Strong base anion exchange resin

Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

	Co-	F	low
--	-----	---	-----

Concentration	10% NaCl
Level	170-530 g/l
Flow rate regenerant	4-6 BV/h
Contact time regenerant	30-60 min.
Flow rate slow rinse	4-6 BV/h
Slow rinse water required	2-4 BV
Flow rate fast rinse	10-30 BV/h
Fast rinse water required	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





www.lenntech.com Fax. +31-152-616-289

