

# Resinex HM-P92-BG-SO

Strong base anion exchange resin

Resinex™ HM-P92-BG-SO<sub>4</sub> is a high purity, premium grade, strongly basic macroporous anion exchange resin type 1. The macroporous crosslinked matrix offers a very high resistance to physical breakage and organic fouling. Its remarkable physical stability makes it highly suitable for the extraction of uranium. The selected bead distribution of Resinex™ HM-P92-BG-SO<sub>4</sub> is especially adapted for the Uranium extraction process (e.g. Resin-In-Pulp process)

### **Typical Properties**

Crosslinked polystyrene divinylbenzene
macroporous, milky white, spherical beads
Quaternary amine, Type 1
95% min.
SO <sub>4</sub>
0.70 - 1.25 mm
1.60 max.
670 kg/m³
1.08 g/cm <sup>3</sup>
50 - 60%
1.15 eq/l min.
8% max.
60°C max.
0 - 14

### **Key Features and Benefits**

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

## **Typical Applications**

Uranium extraction processes

### **Standard Design Conditions**

Bed depth	> 700 mm
Service flow rate	8 - 40 BV/h
Backwash expansion	50 - 75%

### **Standard Packaging**

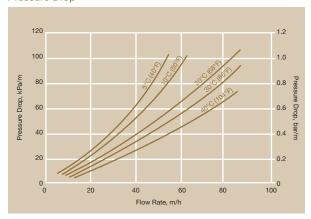
- 25 lit. PE valve bag
- 1000 litre big bag



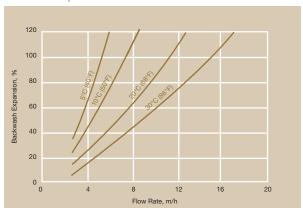


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### Pressure Drop



### **Backwash Expansion**



# Standard Regeneration Parameters

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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





