



DOWEX™ RPU

Physically Tough, High Capacity Strong Base Anion Exchange Resin in the Cl⁻ Form for Uranium Recovery in High Silica Leachates

Product	Type	Matrix	Functional group
DOWEX™ RPU	Type I strong base anion	Styrene-DVB, gel	Quaternary amine

Guaranteed Sales Specifications		Cl ⁻ form
Total exchange capacity, min.	eq/L	1.4
	kgr/ft ³ as CaCO ₃	30.6
Water content	%	43 - 48
Bead size distribution	> 840 μm, max. (20 mesh)	10
	< 420 μm, max. (40 mesh)	5
Whole uncracked beads, min.	%	95

Typical Physical and Chemical Properties		Cl ⁻ form
Total swelling (Cl ⁻ → OH ⁻)	%	15
Particle density	g/mL	1.10
Shipping weight**	g/L	672
	lbs/ft ³	42

Typical Properties and Applications

DOWEX™ RPU resin is a physically tough, high capacity anion resin which can be used for uranium recovery from acid leach liquors. Due to its high resistance to silica fouling, the resin is ideally suited in streams where silica foulant build-up is a problem.

It performs exceptionally well among the present range of DOWEX resins available to the uranium industry, such as DOWEX 21-K.

Packaging

5 cubic foot drums (142 liters)

** As per the backwashed and settled density of the resin, determined by ASTM D-2187.

DOWEX™ Ion Exchange Resins

For more information about DOWEX resins, call the Dow Water Solutions business:

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Warning: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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