

DEIONISING RESIN

Manufactured under exacting specifications, this Nuclear Grade resin has lower residual metals and TOC (Total Organic Carbon) than the SRDI, resulting in the production of ultra-pure water with a conductivity down to 0.055 μ S/cm.

PRDI can be used to produce ultra-pure water with low conductivity / high resistivity (18.3 M Ω). This water, almost in its purest form can be used for radiation wastewater treatment, manufacture of pharmaceutical products, semiconductors and condensate polishing.



FEATURES & BENEFITS

- Uniform particle size and low TOC for use in nuclear waste water and semi conductor applications
- Component resins have been selected for low conductivity values typically providing water quality of 0.055 microSiemens/cm
- The type 1 functional group, in the anionic compound guarantees high purity, silica free water

MATERIALS OF CONSTRUCTION

Resin Type: Cation: Hydrogen Form Sulfonated Polystyrene Copolymer
Anion: Hydroxyl Form Strong Base Alkali Quaternary Ammonium

Resin Form: Gel-type, yellow/amber, Spherical beads

ORDERING GUIDE

Code	Weight (kg)
PRDI-RESIN-25L	18

TECHNICAL DATA

Maximum Operating Temperature ($^{\circ}$ C)	60
Minimum Capacity (Eq/l)	Cation - 1.9
	Anion - 1.0
Volume Ratio (Cation:Anion %)	40:60
Maximum Flow Rate (BV/h)	8 - 40
Functional Group	Cation - SO_3H^+
	Anion - $\text{R}_4\text{N}^+\text{OH}^-$
Ionic Form	H^+/OH^-
Physical Form (Spherical Beads) (%)	≥ 96
Uniformity Coefficient	1.7 Max
pH Range	2 - 12
Bead Size (mm)	Minimum: 0.4
	Maximum: 1.25
Maximum Moisture Content (%)	55