

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 0.55 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	60°C
Minimum Capacity (Eq/l)	Cation - 2.0
	Anion - 1.4
Maximum Flow Rate (lpm)	38 per ft ³
Functional Group	Cation - SO ₃ H ⁺
	Anion - R ₄ N ⁺ OH ⁻
Ionic Form	H ⁺ /OH ⁻
Physical Form (Spherical Beads) %	>90
Uniformity Coefficient	1.6 Max
pH Range	0 - 14
Bead Size (mm)	Minimum: 0.3
	Maximum: 1.2
Maximum Moisture Content (%)	55
Metals Content (as ppm by weight of dry resin)	Iron(Fe) - <80
	Copper(Cu) - <50
	Lead(Pb) - <50