

UltraClean™ UCW9964

UltraClean Grade Mixed Bed Resin - Separable

UltraClean UCW9964 is a separable mixed bed resin is ready to use, specially produced and cleaned for Ultra-Pure Water applications, 1:1 chemical equivalent that is highly regenerated in both the H^+ and OH^- forms. **UltraClean UCW9964** is manufactured in a proprietary process that achieves the ultimate purity for critical UPW applications such as semiconductor chip and wafer manufacturing. The cation and anion components used in **UltraClean UCW9964** are highly durable gel resin beads that resist fragmentation reducing particle release in the treated water. In regenerable mixed beds, good separation of cation-anion during backwashing is critical to prevent cross contamination of the resin with the wrong regenerant. After regeneration reduce the water level to 5 cm (2 inches) above the anion bed and air mix at 0.8 to 1.2 bar for 10 minutes ensures good mixing of the cation and anion resin. **UltraClean UCW9964** has been specifically designed to meet the challenges of performance and reliability critical to your working mixed bed.

TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

BASIC FEATURES:

Application	Ultrapure Water Mixed Bed - Separable
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Sulfonic Acid and Type 1 Quaternary Ammonium
Ionic Form as Shipped	H^+ / OH^-

PRODUCT INFORMATION:

	Cation	Anion
Component	UltraClean Grade Gel Cation	UltraClean Grade Gel Type 1 Anion
Cation / Anion Chemical Equivalent Ratio	1	1
Total Capacity (min.)	1.9 eq/l (41.5 Kgr/ft ³ (H^+ form))	1.0 eq/l (21.8 Kgr/ft ³ (OH^- form))
Conversion (min.)	99.9% (H^+ form)	95 % (OH^- form)
Moisture Retention	49 - 54 % (H^+ form)	55 - 60 % (Cl^- form)
Mean Diameter	610 ± 40 µm	605 ± 55 µm
Uniformity Coefficient (max.)	1.2	1.2
Resistivity	>18 MΩ•cm within 2 BV of rinse at 30 BV/h *	
TOC	<1 ppb Δ TOC within 100 BV of rinse at 30 BV/h (*)	
Shipping Weight (approx.)	670 - 710 g/l (41.9 - 44.4 lb/ft ³)	
Temperature Limit	60°C (140°F)	

* Influent rinse water quality : > 17.5 MΩ.cm; < 2 ppb TOC, < 2 ppb SiO₂