

UltraClean™ UCW3900

Polystyrenic Gel, Gel, Mixed Bed Resin, Hydrogen form, Hydroxide form, Separable, Ultrapure Water Grade

PRINCIPAL APPLICATIONS

- Mixed bed resin for high purity water

TYPICAL PACKAGING

- 1 CF Box
- 50 L Drum (Plastic)
- 5 ft³ Drum (Fiber)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Appearance	Spherical Beads	
TOC (max.)	< 10 ppb TOC within 40 BV of rinse at 30 BV/h (*)	
Resistivity	> 18 MΩ cm within 15 BV of rinse at 30 BV/h (*)	
Shipping Weight (approx.)	700 - 740 g/L (43.8 - 46.2 lb/ft³)	
Temperature Limit	60 °C (140.0 °F)	
Component Name	UltraClean Grade Gel Cation	UltraClean Grade Gel Type I Anion
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene	Gel polystyrene crosslinked with divinylbenzene
Functional Group	Sulfonic Acid	Type I Quaternary Ammonium
Ionic Form	H ⁺ form	OH ⁻ form
Cation / Anion Chemical Equivalent Ratio	1	1
Total Capacity (min.)	2.0 eq/L (H ⁺ form)	1.0 eq/L (OH ⁻ form)
Mean Diameter	570 ± 50 μm	590 ± 70 μm
Conversion (min.)	99.9 % (H ⁺ form)	95 % (OH ⁻ form)
Moisture Retention	46 - 50 % (H ⁺ form)	60 - 70 % (OH ⁻ form)
Uniformity Coefficient	1.2	1.2
Footnote	* Influent rinse water quality : > 17.5 MΩ cm; < 2 ppb TOC	



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