

QuantumPure™ UPW-300 Product Data Sheet

Mixed Bed IX Resin for Ultrapure Water

LG QuantumPure™ offers a comprehensive selection of high-performance ion exchange (IX) resins, designed to address a wide range of water treatment needs from deionization and softening to selective ion removal. Manufactured with state-of-the-art processes, LG QuantumPure™ IX resins provide consistent quality, excellent chemical resistance, and extended service life, reducing the frequency of replacements and maintenance.



Key Features

- Uniform particle size (uniformity coefficient is below 1.1)
- Ready to use, pre-regenerated uniform cation & anion resin in equivalent exchange capacity.
- Excellent physical properties



Key Benefits

- Highly efficient exchange capacity
- Longer service cycle
- Removal of both cations and anions
- Ready-to-use



Key Applications

- Demineralization
- TOC removal
- RO permeate water polishing
- UPW system

Physical and Chemical Properties

Product Name		QuantumPure™ UPW-300	
Matrix		Styrene-divinylbenzene, Gel	
Functional Group		Sulfonic Acid	Type 1 (Trimethylammonium)
Ionic Form		H ⁺	OH ⁻
Total Capacity, min. (eq/l)		1.9	1.0
Average Diameter (μm)		620±50	620±50
Uniformity Coefficient		≤1.1	≤1.1
Ionic Conversion (%)	H ⁺	99.0 Min	-
	OH ⁻	-	95.0 Min
	Cl ⁻	-	1.0 Max
Mixed Ratio		1:1 (by equivalents) Cation : Anion	
Inlet Condition	Specific Flow Rate	SV30	
	Resistivity	>17.5 MΩ·cm	
	TOC	<2 ppb	
Outlet Condition	Resistivity	Guaranteed ≥18.2 MΩ·cm(in 30 min.)	
	ΔTOC	<1 ppb(in 180 min.)	

Recommended Operating Conditions

Max. Operating Temp. (°C) [°F]	60 [140]
Min. Bed Depth (mm)	600
pH Range	0–14
Service Flow Rate (m/h)	5–60

*The values specified are for reference only and does not guarantee performance.

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