

# QuantumPure™

## Product Data Sheet

### Mixed Bed IX Resins

LG QuantumPure™ offers a comprehensive range of high-performance Ion Exchange (IX) resins, designed to meet a wide range of water treatment needs from deionization and softening to selective ion removal. Produced using state-of-the-art manufacturing processes, LG QuantumPure™ IX resins deliver consistent quality, excellent chemical resistance, and extended service life, reducing the need for frequent replacements and maintenance.



#### Key Features

- Ready to use, pre-regenerated Gaussian cation & anion resin in equivalent exchange capacity.
- Good operational stability



#### Key Benefits

- Cost-effective water treatment
- Removal of both cations and anions
- Ready-to-use



#### Key Applications

- Demineralization
- Condensate polishing
- RO permeate water polishing
- Boiler feed water

### Physical and Chemical Properties

Product Name		QuantumPure™ GMB-200		QuantumPure™ GMB-210		QuantumPure™ GMB-300	
Matrix		Styrene-divinylbenzene, Gel					
Functional Group		Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)
Ionic Form		H <sup>+</sup>	OH <sup>-</sup>	H <sup>+</sup>	OH <sup>-</sup>	H <sup>+</sup>	OH <sup>-</sup>
Average Diameter (µm)		300–1,200	300–1,200	300–1,200	300–1,200	300–1,200	300–1,200
Uniformity Coefficient		≤1.6	≤1.6	≤1.6	≤1.6	≤1.6	≤1.6
Ionic Conversion (%)	H <sup>+</sup>	99.0 Min	-	99.0 Min	-	99.0 Min	-
	OH <sup>-</sup>	-	90.0 Min	-	95.0 Min	-	95.0 Min
	Cl <sup>-</sup>	-	1.0 Max	-	1.0 Max	-	1.0 Max
Mixed Ratio		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion	
Inlet Condition	Specific Flow Rate	SV36		SV36		SV36	
	Conductivity	150 µs/cm		150 µs/cm		10 µs/cm	
Outlet Condition	Resistivity	Guaranteed: ≥10.0 MΩ·cm (in 10min.) Actual: ≥15.0 MΩ·cm (in 10min.)		Guaranteed: ≥10.0 MΩ·cm (in 10min.) Actual: ≥15.0 MΩ·cm (in 10min.)		Guaranteed: ≥15.0 MΩ·cm (in 10min.) Actual: ≥17.0 MΩ·cm (in 10min.)	

### 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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