

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

- Mixed resin with equivalent amounts of cations and anions
- 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 ⁺	OH ⁻	H ⁺	OH ⁻	H ⁺	OH ⁻
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 ⁺	99.0 Min	-	99.0 Min	-	99.0 Min
	OH ⁻	-	90.0 Min	-	95.0 Min	-
	Cl ⁻	-	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	Water Type	Potable Water		Potable Water		Potable Water
	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

Operating Temp (°C) [°F]	60
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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