

QuantumPure™

Product Data Sheet

WAC IX Resins with Gaussian Distribution

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

- High exchange capacity
- Good operational stability
- Good chemical durability



Key Benefits

- Cost-effective water treatment
- High regeneration efficiency
- Lower use of regeneration reagent



Key Applications

- High hardness and TDS softening (e.g. Ca²⁺, Mg²⁺)
- Layered bed system with SAC

Physical and Chemical Properties

Product Name	QuantumPure™ GWC-10L
Matrix	Acrylic Acid-divinylbenzene, Porous
Functional Group	Carboxylic acid
Ionic Form	H ⁺
Shipping Weight (g/l)*	720
Specific Gravity*	1.19
Average Diameter (µm)	425–1,200
Total Capacity, min. (eq/l)	4.50
Moisture Retention (%)	45–55
Uniformity Coefficient	≤1.6
Swelling Rate (Na ⁺ →H ⁺ , %)*	60
Swelling Rate (H ⁺ →Ca ²⁺ , %)*	10

Regeneration Specifications

Regenerant	HCl H ₂ SO ₄
Concentration (%)	HCl (1–5) H ₂ SO ₄ (1–2)
Level*	110–120% of Stoichiometric Load
Flow Rate (m/h)	4–20
Rinse Requirement (BV)	4–10

Recommended Operating Conditions

Operating Temp (°C) [°F]	120 [248]
Min. Bed Depth (mm)	700
pH Range	4–14
Service Flow Rate (m/h)	5–50

Feed Water Limitations

Free Chlorine	Not Traceable
Turbidity	Less than 2 NTU
Iron and Heavy Metals	Less than 0.1 ppm

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

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