

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, Porous
Functional Group	Carboxylic acid
Ionic Form	H ⁺
Shipping Weight (g/l)*	720
Specific Gravity*	1.19
Average Diameter (µm)	300–1,200
Total Capacity (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 (g/l)	40–150
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.

The product performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual may be viewed and downloaded at www.lgwatersolutions.com information and data contained herein are Deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred

through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. QuantumPure is the Trademark of LG Chem. All rights reserved. © LG Chem, Ltd.