QuantumPure™ GWC-10L

Product Data Sheet

WAC IX Resin with Gaussian Distribution

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

- 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. Ca^{2+}, Mg^{2+})
- 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 ($Na^+ \rightarrow H^+$, %)*	60
Swelling Rate ($H^+ \rightarrow Ca^{2+}$, %)*	10

Regeneration Specifications

Regenerant	HCl H_2SO_4
Concentration (%)	HCl (1–5) H_2SO_4 (1–2)
Level (g/ℓ)	110–120% of Stoichiometric Load
Flow Rate (m/h)	4–20
Rinse Requirement (BV)	4–10

Recommended Operating Conditions

Max. 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.