QuantumPure™ GWC-10L

WAC IX Resin with Gaussian Distribution

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, 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

Material Specifications

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 do 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.nanoh2owater.com information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. NanoH2O 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 NanoH2O.
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NSF

This product is certified to NSF/ANSI/CAN 61 for drinking water systems