

QuantumPure™

Product Data Sheet

WBA IX Resins with Uniform 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

- Uniform particle size (uniformity coefficient is below 1.2)
- High exchange capacity
- Excellent physical properties
- Good chemical durability



Key Benefits

- Highly efficient exchange capacity
- Longer service cycle
- High regeneration efficiency
- Lower use of regeneration reagent



Key Applications

- Mineral acid removal (ex. HCl, H₂SO₄, HNO₃)
- Layered bed system with SBA

Physical and Chemical Properties

Product Name	QuantumPure™ UWA-80
Matrix	Styrene-divinylbenzene, Porous
Functional Group	Type1 (Tertiary Amine)
Ionic Form	Free Base
Shipping Weight (g/l)*	615
Specific Gravity*	1.04
Average Diameter (µm)	500±100
Total Capacity (eq/l)	1.6
Moisture Retention (%)	55–60
Uniformity Coefficient	≤1.2
Swelling Rate (FB→Cl ⁻ , %)	23

Regeneration Specifications

Regenerant	NaOH
Concentration (%)	2–8
Level (g/l)	30–120
Flow Rate (m/h)	2–8
Rinse Requirement (BV)	2–8

Recommended Operating Conditions

Operating Temp (°C) [°F]	60 [140]
Min. Bed Depth (mm)	700
pH Range	0–9
Service Flow Rate (m/h)	5–60

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

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