## LG Water Solutions



# QuantumPure™

#### **Product Data Sheet**

## WBA IX Resins with Uniform Distribution

LG QuantumPure™ offers a comprehensive range of high-performance lon 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.



Turbidity

Iron and Heavy Metals

#### **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

Less than 2 NTU

Less than 0.1 ppm



#### **Key Applications**

- · Mineral acid removal (ex. HCl, H<sub>2</sub>SO<sub>4</sub>,HNO<sub>3</sub>)
- · Layered bed system with SBA

### Physical and Chemical Properties

| Product Name                            | QuantumPure™<br>UWA-80          |  |
|---|---------------------------------|--|
| Matrix                                  | Styrene-divinylbenzene, Porous  |  |
| Functional Group                        | Tertiary Amine                  |  |
| Ionic Form                              | Free Base                       |  |
| Shipping Weight (g/ℓ)*                  | 615                             |  |
| Specific Gravity*                       | 1.04                            |  |
| Average Diameter (µm)                   | 500±100                         |  |
| Total Capacity, min. (eq/ℓ)             | 1.6                             |  |
| Moisture Retention (%)                  | 55–60                           |  |
| Uniformity Coefficient                  | ≤1.2                            |  |
| Swelling Rate (FB→Cl <sup>-</sup> , %)* | 23                              |  |
| Regeneration Specifications             |                                 |  |
| Regenerant                              | NaOH                            |  |
| Concentration (%)                       | 2–8                             |  |
| Level*                                  | 110–120% of Stoichiometric Load |  |
| 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                   |  |
|   |                                 |  |

<sup>\*</sup>The values specified are for reference only and does not guarantee performance.

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