# **LG Water Solutions**



# QuantumPure™

### **Product Data Sheet**

## SAC 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 reactivity and strong ion adsorption
- Operable in all pH ranges
- Stable operation



#### **Key Benefits**

- · Cost-effective water treatment
- Broader range of operation
- Reliable performance



#### **Key Applications**

- Softening
- · Demineralization by cation removal
- Condensate polishing
- Mixed bed system with SBA

## **Physical and Chemical Properties**

| GC-07   | GC-08  | GC-70  | QuantumPure™<br>GC-80   |
|---|--|--|---|
| Styrene-divinylbenzene, Gel                                       |  |  |   |
| Sulfonic Acid   |  |  |   |
| Na⁺   | Na⁺  | Na⁺  | Na⁺   |
| 800   | 800  | 800  | 800   |
| 1.25  | 1.25   | 1.25   | 1.25  |
| 300-1,200   | 300–1,200  | 300–1,200  | 300-1,200   |
| 1.90  | 2.00   | 1.90   | 2.00  |
| 45–50   | 43–50  | 45–50  | 43–50   |
| ≤1.6  | ≤1.6   | ≤1.6   | ≤1.6  |
| 9   | 8  | 8–9  | 8–9   |
|   |  |  |   |
| HCI<br>H₂SO₄<br>NaCI  | HCI<br>H₂SO₄<br>NaCl   | NaCl   | NaCl  |
| HCI (4-10)<br>H <sub>2</sub> SO <sub>4</sub> (1-4)<br>NaCI (8-12) | HCI (4-10)<br>H <sub>2</sub> SO <sub>4</sub> (1-4)<br>NaCl (8-12)  | 8–12   | 8–12  |
| 50–200  | 50–200   | 50–200   | 50–200  |
| 4–20  | 4–20   | 4–20   | 4–20  |
| 4–10  | 4–10   | 4–10   | 4–10  |
| tions   |  |  |   |
| 120 [248]   | 120 [248]  | 120 [248]  | 120 [248]   |
| 800   | 800  | 800  | 800   |
| 0–14  | 0–14   | 0–14   | 0–14  |
| 5–50  | 5–50   | 5–50   | 5–50  |
|   |  |  |   |
| Not Traceable   |  |  |   |
| Less than 2 NTU   |  |  |   |
|   | 800 1.25 300–1,200 1.90 45–50 ≤1.6 9  HCI H <sub>2</sub> SO <sub>4</sub> NaCI HCI (4–10) H <sub>2</sub> SO <sub>4</sub> (1–4) NaCl (8–12) 50–200 4–20 4–10  tions 120 [248] 800 0–14 | Sulfor       Na <sup>+</sup> Na <sup>+</sup> 800     800       1.25     1.25       300-1,200     300-1,200       1.90     2.00       45-50     43-50       ≤1.6     ≤1.6       9     8       HCI     HCI       H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub> NaCI     NaCI       HCI (4-10)     HCI (4-10)       H <sub>2</sub> SO <sub>4</sub> (1-4)     H <sub>2</sub> SO <sub>4</sub> (1-4)       NaCI (8-12)     NaCI (8-12)       50-200     50-200       4-20     4-20       4-10     4-10       tions       120 [248]     120 [248]       800     800       0-14     0-14       5-50     5-50 | Sulfonic Acid           Na*         Na*         Na*           800         800         800           1.25         1.25         1.25           300-1,200         300-1,200         300-1,200           1.90         2.00         1.90           45-50         43-50         45-50           ≤1.6         ≤1.6         ≤1.6           9         8         8-9    HCI |

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

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Iron and Heavy Metals

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Less than 0.1 ppm