NANOH2O

Product Data Sheet

QuantumPure™ GC-70

SAC 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 reactivity and excellent 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

Material Specifications

Product Name	QuantumPure™ GC-70
Matrix	Styrene-divinylbenzene, Gel
Functional Group	Sulfonic Acid
Ionic Form	Na^+
Shipping Weight (g/ℓ)*	800
Specific Gravity*	1.25
Average Diameter (µm)	300–1,200
Total Capacity, min. (eq/ℓ)	1.90
Moisture Retention (%)	45–50
Uniformity Coefficient	≤1.6
Swelling Rate ($Na^+ \rightarrow H^+$, %)*	8–9

Regeneration Specifications

Regenerant	HCl H_2SO_4 NaCl
Concentration (%)	HCl (4–10) H_2SO_4 (1–4) NaCl (8–12)
Level (g/ℓ)	50–200
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)	800
pH Range	0–14
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.