PRODUCT DATA SHEET

Purolite™ CriticalResin™ NRW100QR

Polystyrenic Gel, Strong Acid Cation Resin, Hydrogen form, With Indicator, Nuclear Grade

PRINCIPAL APPLICATIONS

- Cation Conductivity Monitoring

ADVANTAGES

- Color change from amber to dark red when in exhausted form.

TYPICAL PACKAGING

- 1 CF Box
- 5 ft³ Drum (Fiber)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic Form	H^+ form
Total Capacity (min.)	1.7 eq/L (37.1 Kgr/ft³) (H^+ form)
Moisture Retention	53 - 57 % (H^+ form)
Particle Size Range	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Conversion (min.)	99.9 % (H^+ form)
Reversible Swelling, $Na^+ \rightarrow H^+$ (max.)	8 %
Impurities Iron (max.)	50 ppm
Impurities Sodium (max.)	40 ppm
Impurities Heavy Metals (max.)	40 ppm
Specific Gravity	1.20
Shipping Weight (approx.)	755 - 790 g/L (47.2 - 49.4 lb/ft³)
Temperature Limit	120 °C (248.0 °F)

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Ecolab is a global developer, manufacturer, and supplier of Purolite™ Resins including ion exchange, catalyst adsorbent and advanced polymers that make the world cleaner and healthier.

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