PRODUCT DATA SHEET

Purolite™ CriticalResin™ NRW100

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

PRINCIPAL APPLICATIONS

- Primary coolant polishing
- Radwaste decontamination
- Mixed Bed cation component
- Cation component before strong base anion

ADVANTAGES

- Highly converted to hydrogen form
- Minimal residual metals
- Low organic extractables and rinseables
- Efficient regeneration
- Efficient separation

SYSTEMS

- Make up water demineralizers
- Primary Coolant
- Radwaste

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.)	1.8 eq/L (39.3 Kgr/ft³) (H^+ form)
Moisture Retention	51 - 55 % (H^+ form)
Particle Size Range	425 - 1200 µm
< 425 µm (max.)	2 %
Uniformity Coefficient (max.)	1.7
Conversion (min.)	99.9 % (H^+ form)
Impurities Iron (max.)	50 ppm
Impurities Sodium (max.)	40 ppm
Impurities Heavy Metals (max.)	40 ppm
Specific Gravity	1.20
Shipping Weight (approx.)	760 - 800 g/L (47.5 - 50.0 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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