

## PRODUCT DATA SHEET

# Purolite® NRW1100

Polystyrenic Gel, Strong Acid Cation  
Resin, Hydrogen form, Uniform  
Particle Size, Nuclear Grade

## PRINCIPAL APPLICATIONS

- Decontamination - Lithiated primary circuits
- Mixed Bed cation component
- Layering - Added cation capacity

## SYSTEMS

- Cation resin vessels

## TYPICAL PACKAGING

- 1 CF Box
- 5 ft<sup>3</sup> Drum (Fiber)

## TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic Form	H <sup>+</sup> form
Total Capacity	2 eq/L (43.7 Kgr/ft <sup>3</sup> ) (H <sup>+</sup> form)
Moisture Retention	46 - 50 % (H <sup>+</sup> form)
Mean Diameter	650 ± 50 µm
Uniformity Coefficient (max.)	1.2
Conversion (min.)	99.9 % (H <sup>+</sup> form)
Impurities Iron (max.)	50 ppm
Impurities Sodium (max.)	40 ppm
Impurities Heavy Metals (max.)	40 ppm
Specific Gravity	1.22
Shipping Weight (approx.)	760 - 800 g/L (47.5 - 50.0 lb/ft <sup>3</sup> )
Temperature Limit	120 °C (248.0 °F)



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