

## PRODUCT DATA SHEET

# Purolite® NRW1000

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



### PRINCIPAL APPLICATIONS

- Primary coolant polishing
- Radwaste decontamination
- Mixed Bed cation component
- Cation component before strong base anion
- Demineralization - Make Up Water

### ADVANTAGES

- Superior regeneration
- Highly converted to hydroxide form
- Minimal residual metals
- Low organic extractables and rinseables
- Superior separation

### SYSTEMS

- Make up water demineralizers
- Primary Coolant
- Radwaste

### 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	1.8 eq/L (39.3 Kgr/ft <sup>3</sup> ) (H <sup>+</sup> form)
Moisture Retention	51 - 55 % (H <sup>+</sup> form)
Mean Diameter	570 ± 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	1.20
Shipping Weight (approx.)	750 - 790 g/L (46.9 - 49.4 lb/ft <sup>3</sup> )
Temperature Limit	120 °C (248.0 °F)



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