

## PRODUCT DATA SHEET

# Purolite® NRW3550

Polystyrenic Macroporous,  
Macroporous, Mixed Bed Resin,  
Hydrogen form, Hydroxide form,  
Nuclear Grade

## PRINCIPAL APPLICATIONS

- Primary coolant polishing
- Steam Generator Blowdown  
Demineralization

## SYSTEMS

- Clean-up systems

## TYPICAL PACKAGING

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

## TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Appearance	Spherical Beads	
Particle Size Range	425 - 1200 µm	
< 425 µm (max.)	2 %	
Uniformity Coefficient (max.)	1.7	
Impurities Iron (max.)	50 ppm	
Impurities Sodium (max.)	30 ppm	
Impurities Heavy Metals (max.)	40 ppm	
Anionic Form, CO <sub>3</sub> <sup>2-</sup> (max.)	5 %	
Anionic Form, SO <sub>4</sub> <sup>2-</sup> (max.)	0.1 %	
Anionic Form, Cl <sup>-</sup> (max.)	0.1 %	
Shipping Weight (approx.)	700 - 735 g/L (43.8 - 45.9 lb/ft <sup>3</sup> )	
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F)	
Temperature Limit, Regenerable Bed	60 °C (140.0 °F)	
Component Name	Macroporous Strong Acid Cation	Macroporous Strong Base Anion
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene	Macroporous polystyrene crosslinked with divinylbenzene
Functional Group	Sulfonic Acid	Type I Quaternary Ammonium
Ionic Form	H <sup>+</sup> form	OH <sup>-</sup> form
Cation / Anion Chemical Equivalent Ratio	1	1
Total Capacity (min.)	2.1 eq/L (H <sup>+</sup> form)	0.9 eq/L (OH <sup>-</sup> form)
Conversion (min.)	99.9 % (H <sup>+</sup> form)	95 % (OH <sup>-</sup> form)
Specific Gravity	1.21	1.09



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