

## PRODUCT DATA SHEET

# Purolite® NRW505

Polystyrenic Macroporous, Type I  
Strong Base Anion Resin, Hydroxide  
form, Nuclear Grade



## PRINCIPAL APPLICATIONS

- Steam Generator blowdown purification
- CVCS Deborating of Primary coolant
- Primary coolant polishing
- Radwaste decontamination
- Mixed Bed anion component

## TYPICAL PACKAGING

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

## ADVANTAGES

- Highly selective for Boron
- Highly converted to hydroxide form
- Minimal residual chlorides and sulfates
- Minimal residual metals
- Low organic extractables and rinseables

## TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	OH <sup>-</sup> form
Total Capacity	0.9 eq/L (19.7 Kgr/ft <sup>3</sup> ) (OH <sup>-</sup> form)
Moisture Retention	53 - 58 % (Cl <sup>-</sup> form)
Particle Size Range	425 - 1200 µm
< 425 µm (max.)	2 %
Uniformity Coefficient (max.)	1.7
Conversion (min.)	95 % (OH <sup>-</sup> form)
Impurities Iron (max.)	50 ppm
Impurities Sodium (max.)	20 ppm
Impurities Heavy Metals (max.)	30 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 %
Specific Gravity	1.09

Shipping Weight (approx.)	680 - 720 g/L (42.5 - 45.0 lb/ft <sup>3</sup> )
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F) (OH <sup>-</sup> form)
Temperature Limit, Regenerable Bed	60 °C (140.0 °F) (OH <sup>-</sup> form)



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