

# Purolite® NRW7000

Polystyrenic Gel, Type I Strong  
Base Anion Resin, Hydroxide form,  
Uniform Particle Size, Nuclear Grade

## PRINCIPAL APPLICATIONS

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

## ADVANTAGES

- High operating capacity
- Minimal residual chlorides and sulfates
- Minimal residual metals
- Low organic extractables and rinseables
- Highly converted to hydroxide form

## 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	Type I Quaternary Ammonium
Ionic Form	OH <sup>-</sup> form
Total Capacity	1.15 eq/L (25.1 Kgr/ft³) (OH <sup>-</sup> form)
Moisture Retention	42 - 47 % (Cl <sup>-</sup> form)
Mean Diameter	625 ± 75 µm
Uniformity Coefficient (max.)	1.2
Conversion (min.)	95 % (OH <sup>-</sup> form)
Impurities Iron (max.)	20 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	1.08
Shipping Weight (approx.)	660 - 700 g/L (41.2 - 43.8 lb/ft³)



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Temperature Limit, Non-Regenerable Bed 100 °C (212.0 °F) (OH<sup>-</sup> form)

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Temperature Limit, Regenerable Bed 60 °C (140.0 °F) (OH<sup>-</sup> form)

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