

## PRODUCT DATA SHEET

# 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 ft<sup>3</sup> 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/ft <sup>3</sup> ) (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/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)



**Americas**  
T +1 610 668 9090  
F +1 610 668 8139  
americas@purolite.com

**EMEA**  
T +44 1443 229334  
F +44 1443 227073  
europe@purolite.com

**Asia Pacific**  
T +86 571 876 31382  
F +86 571 876 31385  
asiapacific@purolite.com

**FSU**  
T +7 495 363 5056  
F +7 495 564 8121  
fsu@purolite.com

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Purolite expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.



**Americas**

T +1 610 668 9090  
F +1 610 668 8139  
americas@purolite.com

**EMEA**

T +44 1443 229334  
F +44 1443 227073  
europe@purolite.com

**Asia Pacific**

T +86 571 876 31382  
F +86 571 876 31385  
asiapacific@purolite.com

**FSU**

T +7 495 363 5056  
F +7 495 564 8121  
fsu@purolite.com