### PRODUCT DATA SHEET

# Purolite<sup>®</sup> NRW5010

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

#### **PRINCIPAL APPLICATIONS**

- Anion overlay
- Very fine colloids removal
- Primary coolant polishing
- Radwaste decontamination

#### **ADVANTAGES**

- Highly converted to hydroxide form
- Minimal residual chlorides and sulfates
- Minimal residual metals

#### **SYSTEMS**

- Primary Coolant
- Radwaste

#### **TYPICAL PACKAGING**

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

## **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	0.4 eq/L (8.7 Kgr/ft³) (OH⁻ form)
Moisture Retention	70 - 75 % (Cl⁻ form)
Particle Size Range	425 - 1200 μm
< 425 μm (max.)	2 %
Uniformity Coefficient (max.)	1.8
Conversion (min.)	95 % (OH⁻ 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.)	0.3 %
Anionic Form, Cl <sup>-</sup> (max.)	0.1 %
Shipping Weight (approx.)	590 - 630 g/L (36.9 - 39.4 lb/ft³)
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F) (OH⁻ form)
Temperature Limit, Regenerable Bed	60 °C (140.0 °F) (OH⁻ form)



**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