

## PRODUCT DATA SHEET

# Purolite® 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/ft <sup>3</sup> ) (OH <sup>-</sup> form)
Moisture Retention	70 - 75 % (Cl <sup>-</sup> form)
Particle Size Range	425 - 1200 µm
< 425 µm (max.)	2 %
Uniformity Coefficient (max.)	1.8
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.)	0.3 %
Anionic Form, Cl <sup>-</sup> (max.)	0.1 %
Shipping Weight (approx.)	590 - 630 g/L (36.9 - 39.4 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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