

# Purolite® NRW5070

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

## PRINCIPAL APPLICATIONS

- Anion overlay
- Removal of fine particulates associated with metal oxides
- Primary coolant polishing
- Radwaste decontamination

## TYPICAL PACKAGING

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

## ADVANTAGES

- Excellent physical and chemical stability
- Highly converted to hydroxide form
- Minimal residual chlorides and sulfates
- Minimal residual metals
- High operating capacity
- High porosity

## TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Opaque spherical beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	OH <sup>-</sup> form
Total Capacity (min.)	1 eq/L (21.8 Kgr/ft <sup>3</sup> ) (OH <sup>-</sup> form)
Moisture Retention	50 - 55 % (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.)	100 ppm
Impurities Sodium (max.)	25 ppm
Impurities Heavy Metals (max.)	50 ppm
Anionic Form, CO <sub>3</sub> <sup>2-</sup> (max.)	5 %
Anionic Form, SO <sub>4</sub> <sup>2-</sup> (max.)	0.2 %
Anionic Form, Cl <sup>-</sup> (max.)	0.2 %
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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