

PRODUCT DATA SHEET

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

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 PACKAGING

- 1 CF Box
- 5 ft³ Drum (Fiber)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Opaque spherical beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	OH ⁻ form
Total Capacity	1 eq/L (21.8 Kgr/ft ³) (OH ⁻ form)
Moisture Retention	50 - 55 % (Cl ⁻ form)
Particle Size Range	425 - 1200 µm
< 425 µm (max.)	2 %
Uniformity Coefficient (max.)	1.7
Conversion (min.)	95 % (OH ⁻ form)
Impurities Iron (max.)	100 ppm
Impurities Sodium (max.)	25 ppm
Impurities Heavy Metals (max.)	50 ppm
Anionic Form, CO ₃ ²⁻ (max.)	5 %
Anionic Form, SO ₄ ²⁻ (max.)	0.2 %
Anionic Form, Cl ⁻ (max.)	0.2 %
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F) (OH ⁻ form)



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