

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 ft³ 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 ⁻ 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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