PRODUCT DATA SHEET

Purolite™ CriticalResin™ NRW3560Li7

Polystyrenic Macroporous, Gel, Mixed Bed Resin, Lithium7 form, Hydroxide form, Nuclear Grade

PRINCIPAL APPLICATIONS

- pH control of primary coolant

SYSTEMS

- Primary Coolant

TYPICAL PACKAGING

- 1 CF Box
- 5 ft³ Drum (Fiber)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Appearance	Spherical Beads	
Particle Size Range	425 - 1200 µm	
< 425 µm (max.)	2 %	
Uniformity Coefficient (max.)	1.7	
Impurities Iron (max.)	50 ppm	
Impurities Sodium (max.)	30 ppm	
Impurities Heavy Metals (max.)	40 ppm	
Anionic Form, CO_3^{2-} (max.)	5 %	
Anionic Form, SO_4^{2-} (max.)	0.1 %	
Anionic Form, Cl^- (max.)	0.1 %	
Shipping Weight (approx.)	720 - 750 g/L (45.0 - 46.9 lb/ft³)	
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F)	
Temperature Limit, Regenerable Bed	60 °C (140.0 °F)	
Component Name	Lithium7 Macroporous Strong Acid Cation	Gel Strong Base Anion
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene	Gel polystyrene crosslinked with divinylbenzene
Functional Group	Sulfonic Acid	Type I Quaternary Ammonium
Ionic Form	$^7Li^+$ form	OH^- form
Cation / Anion Chemical Equivalent Ratio	1	1
Total Capacity (min.)	2.1 eq/L ($^7Li^+$ form)	1.1 eq/L (OH^- form)
Conversion (min.)	99.9 % ($^7Li^+$ form)	95 % (OH^- form)
Specific Gravity	1.24	1.08

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