

Nuclear Grade Macroporous Strong Acid Cation Excha

Purolite NRW100Li is nuclear grade strong acid cation exchanger especially designed for the removal of radioactive cation contaminants from primary circuits of nuclear plants conditioned with natural lithium hydroxide. The product contains extremely low levels of other metal cations before being carefully converted to the high purity lithium form. It may be mixed in the desired ratio with the strong base anion resin Purolite NRW400 which is supplied highly converted in the hydroxide form. Such mixtures are capable of removing both cationic and anionic contaminants while maintaining the concentration of lithium hydroxide conditioner at near the correct dose level within the sealed circuit. All Purolite nuclear resins are supplied to exacting standards of high purity as given in the specification below. Alternatively Purolite NRW100Li7 can be supplied where the cation resin is converted to the Li7 form.

Basic Features:

Application	Decontamination of Radioactive Circuits
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Li ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	H ⁺	1.80 eq/l
Total Capacity (min.)	H ⁺	39.30 kGr/ft ³
Moisture Retention	H ⁺	51-55 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Specific Gravity		1.23 g/ml
Shipping Weight (approx.)		775-810 g/l
Shipping Weight (approx.)		48.4-50.6 lbs/ft ³
Temp Limit	Li ⁺	120 °C
Temp Limit	Li ⁺	250 °F
pH Limits		0-14
Ionic Form (min.)		99.90 %
Impurities Sodium (max.)		40 ppm
Impurities Iron (max.)		50 ppm

USA
Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

Europe
Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

Asia Pacific
Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: pultalan@purolitechina.com

Impurities Heavy Metals(max.) 30 ppm

Impurities Heavy Metals 40 ppm

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Telephone: (1) 610-668-9090
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Fax: +44 1443 227073
Email: sales@purolite.com

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Fax: +86 571 876 31385
Email: pultalan@purolitechina.com