

Nuclear Grade Macroporous Strong Acid Cation Excha

Purolite NRW100Li7 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 NRW-100 Li can be supplied where the cation resin is converted to the natural Li 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	7Li ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	7Li ⁺	1.80 eq/l
Total Capacity (min.)	7Li ⁺	39.30 kGr/ft ³
Moisture Retention	7Li ⁺	49-53 %
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	7Li ⁺	120 °C
Temp Limit	7Li ⁺	250 °F
pH Limits		0-14
Ionic Form (min.)		99 %
Impurities Sodium (max.)		40 ppm
Impurities Iron (max.)		50 ppm

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Impurities Heavy Metals(max.) 30 ppm

Impurities Heavy Metals 40 ppm

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