

Nuclear Grade Mixed Bed Exchange Resin

Purolite NRW-367Li7/4584 is a high capacity, nuclear grade, uniform particle mixed bed resin. It is a 1:1 equivalent mixture of the nuclear grade resins strong acid cation Purolite NRWP-2400/4581 in Li7 form and strong base anion NRWP-600/4582. The product contains extremely low levels of metal and anion impurities and is carefully converted to the lithium-7 and hydroxide form respectively. The product is supplied to exacting standards of high purity as given in the specifications below.

Basic Features:

Application	Demineralization & Decontamination of Secondary Cooling Circuits
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic Acid and Type 1 Quaternary Ammonium
Ionic form as shipped	7Li ⁺ / OH ⁻

Typical Physical and Chemical Characteristics:

Cation Component		Gel strong acid cation
Anion Component		Gel strong base anion
Cation / Anion Ratio		38/62 %
Total Capacity (min.)	7Li ⁺	1.80 eq/l
Total Capacity (min.)	7Li ⁺	39.30 kGr/ft ³
Total Capacity (min.)	OH ⁻	1.10 eq/l
Total Capacity (min.)	OH ⁻	24.00 kGr/ft ³
Moisture Content		60 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Shipping Weight (approx.)		720-750 g/l
Shipping Weight (approx.)		45-46.9 lbs/ft ³
Temp Limit	Non-Regenerable Bed	100 °C
Temp Limit	Non-Regenerable Bed	212 °F
Temp Limit	Regenerable Bed	60 °C
Temp Limit	Regenerable Bed	140 °F

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pH Limits		0-14
Cationic Form (min.)		99.90 %
Anionic Form(min.)	OH ⁻	95 %
Anionic Form(max.)	CO ₃ ⁻	5 %
Anionic Form(max.)	Cl ⁻	0.10 %
Anionic Form(max.)	SO ₄ ⁻	0.30 %
Impurities Sodium (max.)		30 ppm
Impurities Iron (max.)		80 ppm

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