

Nuclear Grade Mixed Bed Exchange Resin

Basic Features:

Application	Decontamination of Pressurized Water Reactor (PWR) Circuits
Polymer Structure	Macroporous 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		Macroporous strong acid cation
Anion Component		Macroporous strong base anion
Cation / Anion Ratio		30/70 %
Total Capacity (min.)	7Li ⁺	2.20 eq/l
Total Capacity (min.)	7Li ⁺	48.00 kGr/ft ³
Total Capacity (min.)	OH ⁻	1.00 eq/l
Total Capacity (min.)	OH ⁻	21.80 kGr/ft ³
Moisture Content		60 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Shipping Weight (approx.)		710-745 g/l
Shipping Weight (approx.)		44.4-46.6 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
pH Limits		0-14
Cationic Form (min.)		99.90 %
Anionic Form (min.)	OH ⁻	95 %

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PUROLITE® NRW354Li7
Nuclear Grade Mixed Bed

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
Impurities Heavy Metals		40 ppm

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