

Nuclear Grade Ion Exchange Resin

Purolite NRW104 is a high capacity, nuclear grade polyacrylic weak-acid cation exchanger. The functional group of the carboxylic type gives high operating capacity for feed waters containing alkalinity, such as for example blow-down water in water-steam-cycles. Purolite NRW104 has excellent selectivity for heavy metals provided that sufficient contact time for exchange is allowed. All Purolite nuclear resins are supplied to exacting standards of high purity. Purolite NRW104 is manufactured to the specifications as given below.

Basic Features:

Application	Decontamination of Radioactive Circuits
Polymer Structure	Gel polyacrylic crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Carboxylic Acid
Ionic form as shipped	H ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	H ⁺	3.90 eq/l
Total Capacity (min.)	H ⁺	85.20 kGr/ft ³
Moisture Retention	H ⁺	48-55 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	85 %
Reversible Swelling (max.)	H ⁺ → Ca ₂ ⁺	20 %
Specific Gravity		1.18 g/ml
Shipping Weight (approx.)		735-770 g/l
Shipping Weight (approx.)		45.9-48.1 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
pH Limits		0-14
pH Limits		5-14 (Operating)
Ionic Form (min.)		99.90 %
Impurities Sodium (max.)		40 ppm

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Impurities Iron (max.)	50 ppm
Impurities Heavy Metals(max.)	30 ppm
Impurities Heavy Metals	40 ppm

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