

Semiconductor Grade Mixed Bed Exchange Resin

Purolite NRW37SC mixed bed resin is ready to use, 1:1 chemical equivalent that is highly regenerated in the H⁺ and OH⁻ forms. NRW37SC resins are manufactured by a proprietary process that achieves the high purity for ultra-pure water applications such as pharmaceuticals, radiation waste, and condensate polishing. The cation and anion used in NRW-37SC are gel resins that are polymerized with a styrene-divinylbenzene matrix and functionalized. The resin beads are highly durable and resist fragmentation that can result in particle release in the treated water. In regenerable mixed beds, separation of cation-anion during backwashing is critical to prevent cross contamination of the resin with the wrong regenerant. Air mixing and, in some cases, resin transfer for external regeneration could also be tedious operations, if the wrong resin selection is made. NRW37SC is specifically designed to meet these challenges, every time it is regenerated. Use of NRW-37SC also negates the need for an inert, providing more operating capacity to your working mixed bed.

Basic Features:

Application	Nuclear Grade Ultra Pure Water Purification
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	
Ionic form as shipped	

Typical Physical and Chemical Characteristics:

Cation Component		Gel strong acid cation
Anion Component		Gel strong base anion
Cation / Anion Ratio		40/ 60 %
Total Capacity (min.)	H ⁺	1.80 eq/l
Total Capacity (min.)	OH ⁻	1.00 eq/l
Moisture Content		60 %
Shipping Weight (approx.)		44 - 46 lbs/ft ³
Temp Limit	Non-Regenerable Bed	100 °C
Temp Limit	Regenerable Bed	60 °C
Cationic Form (min.)		99.90 %
Anionic Form (min.)	OH ⁻	95 %
Anionic Form (max.)	CO ₃ ⁻	5 %
Anionic Form (max.)	Cl ⁻	0.10 %

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