



NRW-37SC

Mixed Bed Resin
(For high purity water)

TECHNICAL DATA

PRODUCT DESCRIPTION

Purolite NRW-37SC mixed bed resin is ready to use, 1:1 chemical equivalent that is highly regenerated in the H⁺ and OH⁻ forms. **NRW-37SC** 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. **NRW-37SC** 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.

Typical Physical and Chemical Characteristics		
Resins	PFC-100 H SC	PFA-400 OH SC
Ionic form	H ⁺	OH ⁻
Ion exchange capacity	1.8 meq/ml	1.1 meq/ml
Conversion (%)	> 99.9	>95 (Cl ⁻ < 0.1)
Particle size (micron)	570	570
Uniformity coefficient	1.2	1.2
Water content (%)	51 - 55	55 – 65
Cation: Anion ratio	1:1 chemical equivalent	
Operating temperature	60°C	
Shipping density	Approximately 740 g/l	
Rinsing conditions	@ 30 BV/hr, Influent is min. 18 Megohms, and TOC 1 PPB max	
Operating flow rate	12 – 17 m/hr (higher rates for polishing)	
Resistivity	> 18 Megohms within 30 minutes	
Delta TOC (PPB)	< 1 within 8 hours	