



# PICOPURE 1200

Mixed Bed Resin  
(For Ultrapure water)

## TECHNICAL DATA

### PRODUCT DESCRIPTION

**Purolite PICOPURE 1200** mixed bed resin is ready to use, 1:1 chemical equivalent that is highly regenerated in the H and OH forms. **PICOPURE 1200** resins are manufactured by a proprietary process that achieves the ultimate purity for critical UPW applications such as semiconductor chip manufacturing. The cation and anion used in **PICOPURE 1200** 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. **PICOPURE 1200** is specifically designed to meet these challenges, every time it is regenerated. Use of **PICOPURE 1200** also negates the need for an inert, providing more operating capacity to your working mixed bed.

Typical Physical and Chemical Characteristics		
Resins	PICOPURE 650	PICOPURE 550
Ionic form	H <sup>+</sup>	OH <sup>-</sup>
Ion exchange capacity	2.0 meq/ml	1.1 meq/ml
Conversion (%)	> 99.9	>95 (Cl <sup>-</sup> < 0.1)
Particle size (micron)	650	550
Uniformity coefficient	1.15	1.15
Water content (%)	40- 50	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	
Resistivity	> 18 Megohms within 30 minutes	
Delta TOC (PPB)	< 1 within 4 hours	
Particles < 0.05 micron	10 particles/ml within 12 hours	
Other products in the PICOPURE line		
PICOPURE 650	UPS (650 micron) 10% gel strong acid cation resin	
PICOPURE 550	UPS (550 micron) Gel-Type I strong base anion resin	
PICOPURE 56	Ultrapure mixed bed resin for non-regenerable mixed beds	