

Purolite A100/2412 is a macroporous poly(vinylbenzyl) anion exchange resin, primarily designed for effective recovery of aurocyanide complexes obtained from the alkaline cyanide processing of gold ores. Thanks to properly tailored functionality the resin has superior selectivity for gold against the basic metals exiting in pregnant solution. This resin shows high resistance to osmotic and thermal shock and the mechanical attrition experienced in resin-in-pulp applications for the recovery of gold. Details of the chemical and physical characteristics are given below. The resin is supplied in bead form with a specially graded particle size required by Resin-in-Pulp gold recovery circuits. Desorption stage may include stripping of by-metals by alkaline cyanide, weak thiourea solution and sulfuric acid. Gold is stripped by mixture of sulfuric acid and thiourea. Obtained gold desorbate can be directed straight to electrolysis for gold and silver deposition.

Basic Features:

Application	Gold Recovery
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Strong and Weak Bases
Ionic form as shipped	Chloride Form

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	3.80 eq/l
Moisture Retention	Cl ⁻	53 - 60 %
Specific Gravity		1.04/1.06 g/ml
Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F
pH Limits		None (Stability)

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