

Most Gold and Silver processes of extracting the mineral by using either Carbon in Pulp (CIP) or Carbon in Leach (CIL) processes. The activated carbon dissolved in cyanide is used to recover Gold/Silver.

Before leaching, crush and screen the mineral first, then go through **ball mills** with water and lime. Add flocculants in each thickener to speed up the flocculation, and the underflow will go through series of leaching tanks for leaching which will offer longer time of dissolving in cyanide solutions.

The mineral slurry passes through series of carbon adsorption tanks where the gold and silver are extracted from solution. This is done by adding activated carbon in opposite direction of slurry flow, Gold/Silver will be extracted by activated carbon particles.

This loaded activated carbon is pumped to the elution tank where the Gold/Silver are washed off with superheated water. The washed solution is passed to the electrolytic tank for metals recovery.

Grade	Ionicity	Molecular Weight	Ion Charge Density
A164	Anion	Medium-High	Medium
A174	Anion	High	Medium
A176	Anion	High	Medium-High
A177	Anion	High	High

