Product Technical Data Sheet

**TriVal 24k Acid Gold Strike Plating Solution**

Gold Plating Services’ *TriVal 24K Acid Gold Strike* plating solution is a fully complexed 24 K acid gold strike/acid (potassium auric-cyanide) electroplating formulation. We have developed this gold process to be used as a pre-treatment step that will allow the user to plate 24karat gold directly onto extremely difficult to plate alloys such as stainless steel, Invar or Kovar, (even chrome). The secret to the superiority of Gold Plating Services’ *TriVal 24 K Acid Gold Strike* is the 24 karat acid gold strike (potassium auric-cyanide) complex. The tightly bound complex allows this superior gold strike solution to have a pH of less than 1. This super-aggressive solution ensures concurrent activation and deposition of a thin layer of metallic gold for maximum adhesion.

**Operating Conditions**

- **Temperature**: Room to 110 F
- **Specific Gravity**: 5° Baume’+
- **pH**: 0.7 - 1
- **Anode to Cathode Ratio**: <1:1
- **Current Density**: 5-15 A/sq. ft. (light to moderate gassing).
- **Anode**: Must be platinized or graphite
- **Gold Concentration**: 0.15 - 0.25 Troy oz./gal
- **Agitation**: Moderate agitation by cathode or solution movement
- **Deposit Rate**: 10 mg/ampere minute
- **Recommended time**: 20 to 30 seconds or until the surface shows a faint yellow tint.

Maintain pH using reagent grade hydrochloric acid

Platinized titanium or platinum clad niobium

Read and understand SDS sheets before using. For professional use by trained technicians only.