



Gold Plating Services

Technical Data Sheet

24k Pure Pen Gold Solution

Gold Plating Services' *24k Pure Pen Gold Solution* is an extremely efficient (cathode efficiency 90%+), neutral pH, water clear, gold plating solution designed to produce a gold electro-deposit of 99.9%+ purity to virtually any desired thickness for surfaces used in the medical, semi-conductor, electronic, and PWB industries where soft, high purity gold is required. Due to the grain structure of this type of gold deposit, the reflective qualities of the surface will become noticeably matte with increased thickness.

Electrodeposited gold will be equivalent to Type III, Grade A specifications as indicated in **MIL DTL-45204D**, as follows:

Gold Content - Varies based on product size

Purity - 99.9+ percent gold minimum (24 karat)

Hardness - Knoop hardness < 90 (typically 55-60)

Operating Conditions

Efficiency -	90%+
Hardness -	60 - 80 Knoop
Application Handle -	Standard Combination Handle
Application Tip -	Felt - Fine or Medium
Anode -	Platinized titanium bit with cotton sleeve
Voltage -	3-5 Volts