

# Gold Plating

*Gold coatings that meet demanding performance requirements*

Anoplate runs a full series of gold baths that are formulated to plate with varying degrees of purity and hardness, as required by the specific application.

The metallurgical properties achieved in these gold formulations allow Anoplate to offer gold electrodeposits that assure optimal performance in the following areas:

- Corrosion and tarnish resistance
- Bondability
- Low and stable contact resistance
- Solderability
- Wear resistance
- Infrared reflectivity

Achieving the desired performance in these areas — through tight control of purity, hardness, and thickness of the gold deposit — is one of Anoplate's engineering specialties.

## Rely on Anoplate's Gold Expertise

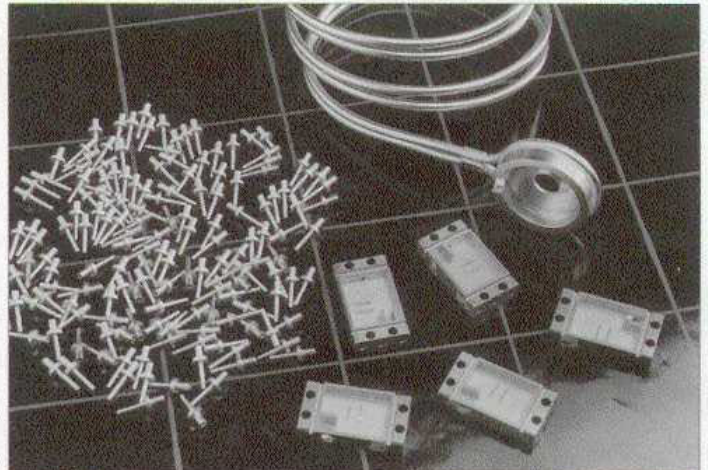
Anoplate engineers and plating personnel have extensive experience in gold plating technology, strategies, and practical applications.

They are fully experienced in meeting the requirements of MIL-G-45204, ASTM B 488, and AMS 2422 specifications, including the pertinent gold types, grades, codes, and classes.

The production staff in Anoplate's Gold Department are also fully experienced in surface preparation and underplating — for example, in the use of copper and nickel underplating to improve corrosion resistance and wear-life, and in techniques of copper flashing as a preparatory step to applying gold over copper alloys that contain zinc, beryllium, tellurium, or lead.

Anoplate personnel evaluate the required gold thickness, substrate material and condition, method of gold striking, and specific bath composition— all in a processing environment of strict bath maintenance and process control.

Anoplate's expertise in gold finishing assures you not merely of "meeting the spec," but of achieving the critical properties and performance that will make your application a success.



■ *Representative parts that receive gold plating at Anoplate: evaporator head (top), microelectronic package (lower right), terminal contact pins (left).*

## Anoplate's Gold Processes

In-House Term	MIL Grade	Hardness (Knoop)
"Hot" Gold	A	90 Max
"New" Gold	B	91-129
Purple Gold	C	130-200
Hard Gold	D	201 Min

Learn more about Anoplate at <http://www.anoplate.com>