Anoplate Gold

Gold coatings that meet demanding performance requirements

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

Anoplate engineers and plating personnel have extensive experience in gold plating technology, strategies, and practical applications. Anoplate is fully capable in obtaining proper **Gold** plating adhesion over difficult-to-plate copper alloys containing zinc, beryllium, tellurium or lead.

Per MIL-DTL-45204, and following purity "Types" are associated with hardness "grades":

Anoplate Term	Grade	Purity Type	Hardness*
"Hot" Gold	A	Type I and III	90 Max
"New" Gold	B	Type I and II	91-129
Purple Gold	C	Type I and II	130-200
Hard Gold	D	Type II	201 min

*Knoop, 25 gram-force load

SPECIFICATIONS

- MIL-DTL-45204
- ASTM B 488
- AMS 2422

KEY ADVANTAGES

- Corrosion and tarnish resisitance
- Bondability
- Low and stable contact resistance
- Solderability
- Wear resistance
- Infrared reflectivity
- No fretting degradation

GOLD BATHS AVAILABLE

- **"Hot" Gold:** 24 Karat satin-bright deposit that is stress-free, fine grained and extremely ductile. This deposit has exceptional corrosion and heat-resistance, and has exceptional solderability, ever after prolonged storage.
- **Purple Gold:** 23.9 Karat which co-deposits with metallic hardeners for added durability. Achieves a relatively low-stress deposit, is 99.7% pure, and results in a contact resistance of 4-7mΩ.
- **Hard Gold:** Durable deposit is excellent for connector pins and shells that will see multiple mating cycles and need to withstand sheering forces. The resulting deposit has a lower coefficient of friction than any of the other grades.

ANOPLATE®

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