

Technical data sheet and product guideline



GFX1

Acid gold strike solution for bath plating 1 g/l (ready-to-use)

Color coordinates



L	82
a	8.1
b	33.6
c	34.6

Product form

Metal concentration	1 g/l (Au)
Form	Liquid
Material color	Pink
Storage time	2 years
Format	Ready to use
Chemical type	Acidic
Volume	1 liter

Operating data

	Range	Optimal
Voltage (V)	2.5 - 3.5	3
Current density (A/dm ²)	1 - 5	3
Working temperature (°C)	40 - 50	45
Exposure time (sec)	60 - 120	90
pH	1.0 - 1.5	1.2
Cathode efficiency (mg/Amin)	16	16
Deposition speed	0.1	0.1
Anode/cathode ratio	2:1	2:1
Anode type	Platinized titanium	
Agitation	Moderate	

Metal concentration

Metal	Range (g/l)	Optimal (g/l)
Gold	0.5 - 2.0	1.0
Cobalt	0.25 - 1.0	0.5

Deposit data

Purity (%)	99.7
Hardness (HV 0,01)	170-190
Density (g/cm ³)	19.1
Thickness (um)	0.2
Appearance	Shiny
Color	Yellow Gold

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Preparation

GFX1 is a ready-to-use plating bath at the concentration of 1 g/l of gold. No preparation is required while filling the working tank.

Equipment

Working vessel materials: Pyrex glass / PVC / polypropylene

Power supply: DC current rectifier with low residual AC (<5%)

Heating element

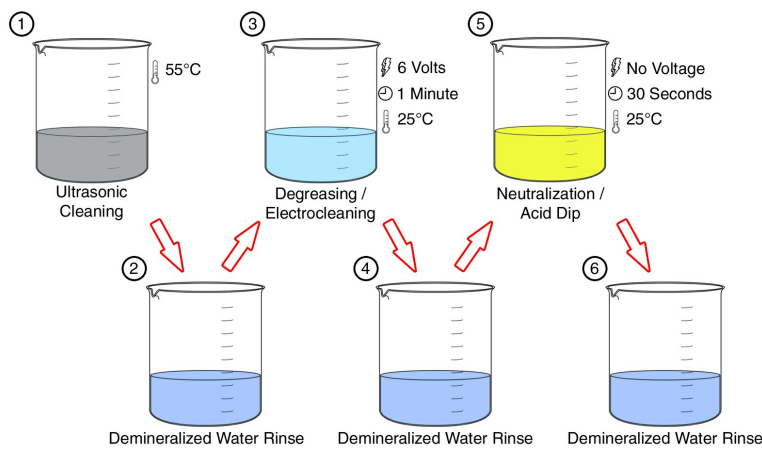
Anode type: Platinized titanium [1.5-2.5 µm] or stainless steel

For larger bath volumes:

Magnetic driven filter pumps with 5-15 µm cartridge (before use, boil and wash the cartridges with demineralized water for 3 hours to prevent organic contamination)

Amp/min counter

Pre treatment



Bath maintenance

GFX1 was developed for small plating installations therefore replenishment has not been studied. It is to be used until exhausted.

Post treatment

Electrolyte should be removed from the surface as quick as possible. Rinse off the bath rests in a recovery rinse (still rinse). Rinse the parts in circulating deionized water and dry.

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Water purity

To prevent contamination of the bath both during its preparation and any subsequent replenishing operations, use demineralized water with a conductivity of less than 3 µS/cm (containing no traces of organic compounds, Chlorine, Silicon, or Boron).

Safety information

Being an acidic solution, the electrolyte is an irritant to the skin, eyes and mucous membranes. Caution should be exercised when using the product, avoiding contact with the eyes and skin. Use gloves and safety goggles. Keep away from acid based chemicals. For further information please refer to the relative MSDS.

Related products

AUS683 Gold replenisher in salt form

Packaging

