

Technical data sheet and product guideline



GFBROWN-K

Brown gold flash solution for bath plating (ready-to-use)

Color coordinates



L	77.1
a	8.1
b	22.3
c	23.7

Product form

Metal concentration	0.5 g/l (Au)
Form	Liquid
Material color	Blue
Storage time	2 years
Volume	1 liter

Operating data

	Range	Optimal
Voltage (V)	3-5	3.5
Current density (A/dm ²)	1.5-3.0	2
Working temperature (°C)	60-70	65
Exposure time (sec)	20-60	45
pH	3.8-4.5	4
Cathode efficiency (mg/Amin)	8-14	10
Anode/cathode ratio	2.5:1	2.5:1
Anode type	Platinized Titanium	
Agitation	Strong	

Metal concentration

Metal	Range (g/l)	Optimal (g/l)
Gold	0.3-0.8	0.5

Deposit data

Purity (%)	85
Hardness (HV 0,01)	80-100
Density (g/cm ³)	17
Thickness (um)	0.1-0.2
Appearance	Shiny
Color	Brown

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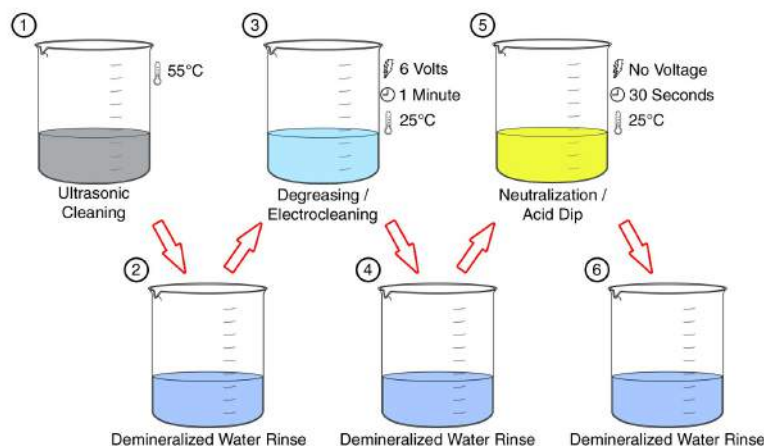
Preparation

GFBROWN-K is a ready-to-use plating bath at the concentration of 0.5 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

Pre treatment



Bath maintenance

GFBROWN-K 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.

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).

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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 cyanide based chemicals. For further information please refer to the relative MSDS.

Additional hints

When used at higher voltages the final layer will result in a deeper brown color. If the voltage is too high burning will occur. For the darkest color range achievable for the selected surface, it is advisable to find the maximum voltage applicable without burning.

Related products

AUS683 Gold replenisher in salt form

Packaging

