

## Technical data sheet and product guideline

# GFPINK

Pink gold flash solution for bath plating 0.6 g/l (ready-to-use)



### Color coordinates



### Product form

Metal concentration	<b>0.6 g/l (Au)</b>
Form	<b>Liquid</b>
Material color	<b>Transparent</b>
Storage time	<b>2 years</b>
Format	<b>Ready to use</b>
Chemical type	<b>Alkaline</b>
Volume	<b>1 liter</b>

### Operating data

	Range	Optimal
Voltage (V)	<b>3 - 6</b>	<b>4,5</b>
Working temperature (°C)	<b>60</b>	<b>60</b>
Exposure time (sec)	<b>10-60</b>	<b>35</b>
pH	<b>9-11</b>	<b>10</b>
Cathode efficiency (mg/Amin)	<b>8-12</b>	<b>10</b>
Solution density (Bé)	<b>2 - 6</b>	<b>4</b>
Anode/cathode ratio	<b>&gt;1:1</b>	<b>&gt;1:1</b>
Anode type	<b>Platinized titanium or stainless steel</b>	
Agitation	<b>Absent</b>	

### Metal concentration

Metal	Range (g/l)	Optimal (g/l)
Gold	<b>0.6 - 0.3</b>	<b>0.6</b>

### Deposit data

Purity (%)	<b>99.9</b>
Hardness (HV 0,01)	<b>90-100</b>
Density (g/cm <sup>3</sup> )	<b>19</b>
Thickness (um)	<b>0.1-0.2</b>
Appearance	<b>Shiny</b>
Color	<b>Pink</b>

### Preparation

GFPINK is a ready-to-use plating bath at the concentration of 0.6 g/l of gold. No preparation is required while filling the working tank.

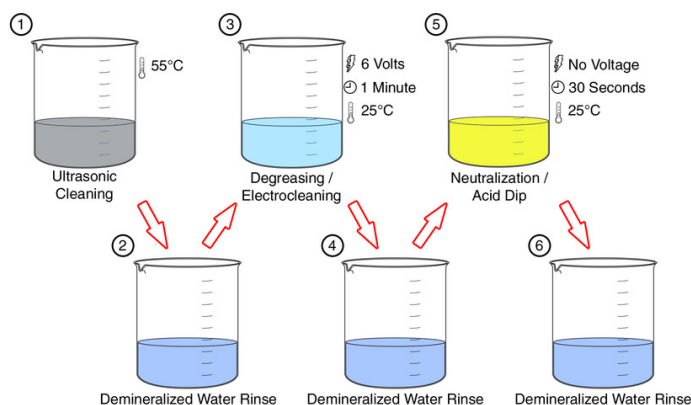
### Equipment

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 Cleansing procedure



## Bath maintenance

### Density of the solution

It is important to check the density of the solution every week. It must stay in the range of 2-6 °Bé. correct the solution density with the suitable conducting salts GFSC or GF-SF knowing that their addition in the quantity of 15 g/l will raise the density of 1 °Bé.

### pH corrections

Use potassium hydroxide to high the pH.

### Consumption

Every 1000 Amin 10 g of fine gold are consumed. Restore 10 g of gold and then add 200 ml of complete replenisher GF5NR.

### Analytical controls

This process is easy to maintain, but it initially requires frequent analytical controls in order to obtain a correct concentration level of all the metals present. Clearly, metal concentrations greatly influence the final deposited color; therefore, an incorrect management of these parameters shall inevitably lead to unwanted colors. Some general guidelines for maintenance are below described:

- Copper concentration is 0.5 g/l and within a range of 0.48-0.52 g/l.

## 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 in any subsequent topping up operations, use demineralized water with a conductivity of less than 3  $\mu\text{S}/\text{cm}$  (containing no traces of any organic compounds, Silicon or Boron). To achieve maximum deposit quality, we recommend using our high-grade purity WATER.

## Safety information

Being an alkaline solution, the GFPINK bath is irritant to 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. For further information please refer to the relative safety datasheets.

## Supplementary Information

## Agitation Of The Solution And/Or Pieces

Agitation of pieces is not mandatory.

## Packaging

The product comes in a 1 liter bottle.

IMPORTANT: When you receive the product make sure that the cap is intact.

## Temperature

Best performances are obtained at 60°C working temperature.

Bath plating solutions	Code
Rose gold flash replenisher (1 liter packaging equal to 5 replenisher units)	GF5NR
Gold potassium cyanide 68.3% Au salt replenisher	AUS683

## Disclaimer

*All recommendations and suggestions in this bulletin concerning the use of our products are based upon tests and data believed to be reliable. Since the actual use by others is beyond our control, no guarantee expressed or implied, is made by Legor Group, its subsidiaries of distributors, as to the effects of such use or results to be obtained, nor is any information to be construed as a recommendation to infringe any patent.*

## Related products

<b>AUS683</b>	Gold replenisher in salt form
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**Packaging**



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