



GFPINK

PINK GOLD FLASH SOLUTION FOR BATH PLATING 0.6 G/L (READY-TO-USE)

GENERAL INFORMATION

GFPINK is Legor Groups latest installment of red gold solutions developed to meet the plating industries mature keen eye for color. A light pink color with true white undertones, presenting a distinctive pink finish. Given that the final layer is 20KT gold in title, the layer is also more tarnish resistant when compared to the common 18KT gold titled solutions found on the market.

Product form

Metal concentration	0.6 g/l (Au)
Product's pH	Alkaline
Solution form	Ready-to-use
Solution form	Liquid
Plating solution color	Transparent
Storage time	2 years
Volume	1 liter

Deposit data

Purity (%)	99.9
Solution appearance	Shiny
Hardness [HV 0.01]	90-100
Density [g/cm ³]	19.0
Plating solution color	Pink
Thickness range [μm]	0,1 - 0.2



Operating data	RANGE	OPTIMAL
pH	9-11	10.0
Solution density (°Bé)	2 - 6	4.0
Voltage [V]	3 - 6	4.5
Working temperature [°C]	60	60
Exposure time (sec)	10 - 60	35.0
Cathode efficiency [mg/Amin]	8-12	10.0
Anode-cathode ratio	>1:1	>1:1
Anode type	Platinized titanium or stainless steel	
Agitation	Absent	

Metal concentration	METAL	RANGE (g/l)	OPTIMAL (g/l)
	Gold	0.6 - 0.3	0.6

**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

GFPINK can be deposited directly onto Palladium, Nickel, and precious metal substrates. An intermediate deposit of Palladium or Nickel is required over Silver, and all alloys containing copper to prevent copper migration. An intermediate deposit or precious metal plating strike is necessary before depositing onto Tin, Lead, Zinc, Cadmium, Aluminum and Iron.

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 µS/cm (containing no traces of any organic compounds, Silicon or Boron). To achieve maximum deposit quality, we recommend using our high-grade purity water.

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.

**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.

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.

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 or 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.

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RELATED PRODUCTS LIST**Prodotto Complementari**

AUS683	Gold (I) potassium cyanide 68.3%
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