

GY2P

READY TO USE GOLD PEN PLATING SOLUTION 2G/100ML PURE GOLD COLOR

DESCRIPTION

GY2P is a yellow gold pen plating solution which deposits a brilliant 24 kt gold color to the applied surface. The color is that of pure gold as no other metals are used as an alloy in the deposit. It is a perfect solution to for two -tone plating applications where a rich gold color is required. It can also be used to highlight specific details or cover solder joints on 24 kt gold items. This yellow gold pen plating solution is nickel, lead, and cadmium free.

- Gold pen plating solution
- Pure 24 kt gold color
- · Great for two-tone plating applications
- Good color repeatability
- Low gold content
- Nickel, lead, and cadmium free

DEPOSIT DATA	
Hardness [HV 0.01]	90 - 100
Density [g/cm³]	19.6
Thickness from-to [µm]	0,05 - 0,1
Aspect	Shiny

PRODUCT FORM	
Metal concentration	2 g Au/100 ml
Product pH	Alkaline
Format of the solution	Ready to use liquid
Plating solution color	Colorless
Storage time	2 years
Volume	100 ml

PRODUCT USAGE	RANGE	OPTIMAL	
Voltage [V]	See "Supplementary Information" section		
рН	8 - 10	8	



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METAL CONCENTRATION	
METAL	OPTIMAL
Au	2 g Au/100 ml

COLOR COORDINATES	;
L *	82.2
a*	3.9
b*	30.4
C *	30.7

Note: Color coordinates here reported have been measured on a white underlayer and they are to be intended as PURELYINDICATIVE being strongly dependent on underlayer color, on thickness of the deposit and on specific design(shape)of the surface.



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USER GUIDE

READY TO USE SOLUTION PREPARATION

GY2P is a ready-to-use pen plating solution at the concentration of 2 g/ 100 ml. No preparation is required. It is important to check, once the product has been received, the integrity of its packaging.

EQUIPMENT AND TOOLS

In order to maximize the quality deposition for gold obtained with GY2P it is advisable to use the pen plating machine: PENPLATSYS connected with its anodic output with PENPLAT pen provided with platinum-based collar (please, refer to its specific manual of use). About fel tips, it will be possible to use of different types: standard or thin tips as well as white or brown ones. Those brown are generally faster in deposition than white; while the latter are giving less probability of burnt or dark layers due to prolonged contact times between tips taking plating solution and surfaces to be decorated.

PLATING SOLUTION MAINTENANCE

Use the gold pen plating solution until it is completely exhausted, without the additions of any replenisher-additives

PRETREATMENTS

Work items designated to undergo a pen plating operation, must go through the same cleaning procedures as recommended for standard bath plating operations. GY2P can be deposited directly onto silver, palladium, gold, nickel, and its alloys. An intermediated deposit or precious metal plating strike is necessary before depositing onto other metals (i.e., Copper and copper alloys). As pre-treatment it is suggested to run a preliminary degreasing through a cycle of ultrasonic degreasing treatment-solution followed by a wash step into running water. Then proceed with the electrolytic degreasing step by using the alkaline degreasing solution SGR1. Once the items have been washed again in demineralized water, then proceed in activate and neutralize the surface of the same by dipping them into the slightly acidic solution NEUT1 for 3 – 4 times subsequently at room temperature, to be sure that no alkaline residues coming from the degreasing previous steps are dragged into the pen plating solution (which would lead to a reduction of its life). After the neutralization, wash them in demineralized running water and finally keep the items immersed into a D.I. water filled - Becker or small tank until they will not be treated by rhodium pen application. Once they are ready to be pen plated, withdraw them from the D.I. water temporary tank by the using of a suitable tweezer.

POST TREATMENTS

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 running water and dry.

SUPPLEMENTARY INFORMATION

About the voltage to be set: the best voltage for using GY2P is to be chosen upon the kind of tip used on the pen:

- White tips: 8 -10 V - Brown tips: 7 - 9 V - PENGRAF: 3 - 5 V

About the temperature: work at room temperature, in the range of 20 - 30°C.

SAFETY INFORMATION

Being an alkaline solution, the electrolyte is corrosive therefore 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 acidic chemicals. For further information please refer to the relative MSDS.

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.