


GENERAL INFORMATION

GY2P is a yellow gold pen plating solution which deposits a brilliant 24 kt gold color to the surface applied. 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.

Product form

Metal concentration	2 g/ 100 ml
Product's pH	Alkaline
Solution form	Ready-to-use
Solution form	Liquid
Plating solution color	Transparent
Storage time	2 years
Volume	100 ml

Deposit data

Purity (%)	100.0
Hardness [HV 0.01]	90 - 100
Density [g/cm ³]	19.6
Thickness range [μm]	0,1 - 0.3



Operating data	RANGE	OPTIMAL
Voltage [V]	See information section	
pH	8 - 10	8.0
Working temperature [°C]	20 - 30	20

Metal concentration	METAL	RANGE (g/l)	OPTIMAL (g/l)
	Gold	20	20.0

Color coordinates

L*	82.2
a*	3.9
b*	30.4
c*	30.7

**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

Power supply: Pen plating machine (5 Amp – 12 Volt rectifier)
Anode: A pen with a platinum collar
Tips: Fiber (white or brown)

PRE TREATMENT

Work pieces designated to undergo a pen plating operation, must go through the same cleaning procedures as recommended for bath plating operations. GY2P can be deposited directly onto silver, palladium, gold, nickel and its alloys. An intermediate deposit or precious metal plating strike is necessary before depositing onto materials containing tin, lead, zinc, aluminum or 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 running water and dry.

BATH MAINTENANCE

Use until the gold plating solution is completely exhausted without the addition of any replenisher-additive.

SUPPLEMENTARY INFORMATION**Choosing the correct voltage**

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: 6 - 9 V
- PENGRAF: 3 - 5 V

About the temperature

Work at room temperature, in the range of 20 -30°

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

DISCLAIMER

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