DLEGOR[®] TECHNICAL SHEET

GP1-2N

JEWELRY

PLATING



2N YELLOW GOLD PEN PLATING SOLUTION

GENERAL INFORMATION

GP1-2N is a yellow gold pen plating solution which deposits a brilliant 2N gold color to the surface applied. 2N can be described as a pale yellow with green undertones and considered to match 18 kt yellow gold plating in most international markets. It is a perfect solution to for two-tone plating applications where a pale gold color is required. It can also be used to highlight specific details or cover solder joints on 2N gold colored or 18 kt gold items. This yellow gold pen plating solution is nickel, lead, and cadmium free.

Product form					
Metal concentration	1 g/ 100 ml				
Product's pH	Alkaline				
Solution form	Liquid				
Solution form	Ready-to-use				
Plating solution color	Transparent-Green				
Storage time	2 years				Constance of pola-
Volume	100 ml				
Deposit data					
Purity (%)	100.0				
Hardness [HV 0.01]	90 - 100				
Density [g/cm ³]	19.6				
Thickness range [µm]	0.05 - 0.2				
Operating data		RANGE		OPTIMAL	
Voltage [V]		See inform	ation section		
рН		8 - 10		8.0	
Working temperature [°C]		20 - 30		25	
		20-30			
Metal concentration	METAL		RANGE (g/l)	OPTIMAL (g/l)	
	Gold		10	10.0	

Color coordinates	
L*	88.7
a*	2.1
b*	30.0
С*	30.0



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PREPARATION

GP1-2N is a ready-to-use pen plating solution at the concentration of 1 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. GP1-2N 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 GP2-1N 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 temeprature, in the range of 20 -30°C.

About the color of the solution

The color of the solution is initially transparent but during time it tends to switch gradually to pale green until blueish tones as the cyanide degradates. For this reason it is advisable to use it in a short time.

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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