

Technical data sheet and product guideline



GP1-3N

3N yellow gold pen plating solution

Color coordinates



L	87.8
a	4.2
b	26.4
c	26.7

Product form

Metal concentration	1 g/ 100 ml
Form	Liquid
Material color	Greenish transparent
Storage time	2 years
Format	Ready to use
Chemical type	Cyanide based
Volume	100 ml

Operating data

	Range	Optimal
Voltage (V)	5-10	8
Working temperature (°C)	20 - 30	25
pH	5-10	8
Deposition speed (µm/min)	5-10	8

Metal concentration

Metal	Range (g/l)	Optimal (g/l)
Gold	10	

Deposit data

Purity (%)	99.999
Hardness (HV 0,01)	90 - 100
Density (g/cm3)	19.6
Thickness (µm)	0.1 - 0.3
Appearance	Shiny
Color	3N yellow gold

Preparation

GP1-3N is a ready-to-use pen plating solution at the concentration of 1 g/ 100 ml. No preparation is required.

Equipment

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

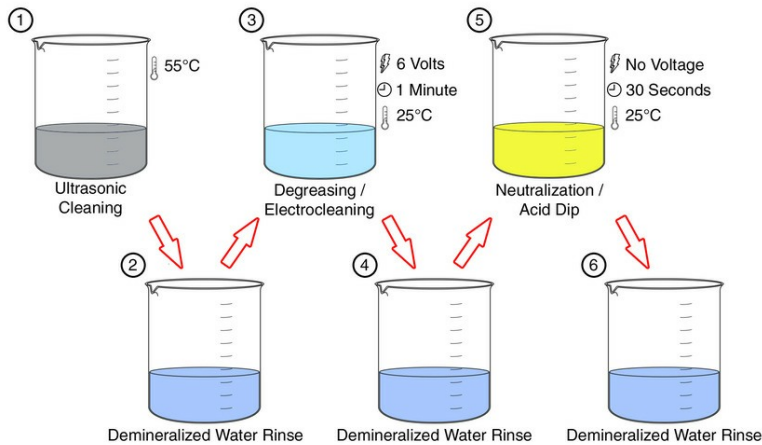
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Pre treatment Cleansing procedure



Bath maintenance

Use until the rhodium solution is completely exhausted without incorporating replenishment or additives.

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.

Safety information

Being an acidic 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.

Supplementary Information

Choosing the correct voltage

The best voltage for using GP1-1N 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

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Disclaimer

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Packaging

