

Pino Powder Plating 2N (0.8 g/lAu) Operating Instruction



Product Code	307-129	
Colour	2N (World Standart 18CaratColour)	
Preparation	Theproduct is preparedforusebyadding 1 liter of distilledwaterto 1 package	
Tanks	PolypropyleneorGlass	
Anodes	Platinised titanium orstainless-steel	
Heaters	PorcelainorStainlessSteel	
Agitation	Solution andworkmovement(slow)	

USAGE: Heat the ready-to-use solution to 60°C. Dipping the platinum coated titanium (+) anode into it. Put the material you want to plate into the solution with the help of a current-conducting (-) hanger (Platinex hanger is recommended). Perform the plating process by immersing it and applying 6V voltage and moving it for 30 seconds. Flash gold plating is used as the final color and has approximatly 0.1 micron thickness on the product.

IMPORTANT NOTE: The more accurate the pre-treatment processes before plating, the beter the plating quality will be. Please contact our company regarding the pre-treatment preparation.



Gold Content:	0.8 g/l
Potassium Cyanide:	0.5 g/l
pH:	9.5 ±10.5
Temperature:	60°C ±3
Voltage:	5,5 – 6V
Anode-To-Cathode Ratio:	1:1 orplus
Plating Efficiency:	10 mg/A.mn
Deposition Rate:	~ 0.1 µ/mn at 2 A/dm ²
Plating Time:	30 second (20 - 60)



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Purity:	97 % ± 1	
Hardness:	140 - 160 HV	
Density:	18.5 g/cm ³	



Consumed 10,000 Amps Per Minute

- 100 gr PURE GOLD (%68,2 Gold Potassium Cyanide)
- 100 ml PALET AL RTU REPLENISHER

SOLUTION MAINTENANCE

The gold metal content should be maintained at the recommended concentration (0.2-0.3 for barrel) by periodical additions of %68,2 Gold Potassium Cyanide. PALET AL RTU replenishers are supplied in units of 100 ml and contain all necessary ingredients to be added with 100 g gold metal, and should always be added together with the gold.

The pH should be determined using a pH meter and be maintained between 9.5 and 10.5 with either 5 % Phosphoric acid chemically pure or 20 % Sodium Hydroxide chemically pure.

The density of the solution is usually maintained by additions of the Replenisher and pH adjustments. However, if the density falls below 3 °Be for rack or 5 °Be for barrel, then it will be necessary to add PALET AL Corrector Salt. An addition of 17 g/l will increase the density by 1 °Be.

In general, any metallic contamination could interfere with the operation of PALET AL RTU processes and should therefore be prevented by proper rinsing of the parts to be plated. A final rinse in deionised water is recommended.



1. TANKS

Tanks should be made from Polypropylene or rubber lined steel and be able t owithstand temperatures up to 70° C. Prior to use the tank should be leached with 5 % Sodium Hydroxide solution at 60°C for 24 hours and then rinsed in several changes of water.



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2. HEATERS

Heaters should be made from Porcelain o rStainless Steel and be thermostatically controlled. The temperature of the bath should be maintained at 57 - 63°C.

3. FILTRATION

The solution should be filtered continuously. Allparts of the fitler should be made from alkali resistant materials, able to withstand a temperature of 60-70°C. When cartridges filters are used, then the cartridge should be leached in 2% Sodium Hydroxide prior use. Solution volume should be filtered at least twice per hour and particle retention should be $10~\mu$ or less.

4. AGITATION

Mechanic alagitation is not required. Solution movement via the fitler system will be adequate.

5. ANODES

Insoluble anodes of Platinised titanium should be used with this solution or stainless- steel.



CONSTITUENT	LOW	HIGH
Gold		Hazy Deposit
Alloy Metal	Deposit Too Yellow	Reddish or Greenish Deposit
Potassium Cyanide	Deposit Too Pink	Hazy Deposit
pH-Value	Too Pale Deposit	Too Dark Color
Temperature	Hazy Deposit	Dark Yellow Deposit
Voltage	Too Yellow Deposit	Too Pink Deposit
Densityof The Bath	Lossof Brightness	
Agitation	Possible Pitting	<u> </u>