

**JEWELRY  
PLATING**
**GFGREEN**
**READY TO USE GREEN GOLD FLASH PLATING SOLUTION WITHOUT  
CADMIUM 1g/L**
**DESCRIPTION**

- Green gold color
- Good tarnishing resistance
- Thickness up to 0,2 µm
- Good color reproducibility and stability
- Without Cadmium
- Without free cyanide

GFGREEN is a ready-to-use plating solution able to deposit shiny layers uniform and of green color without Cadmium in its formula. The color given by GFGREEN permits to the goldsmiths and jewelry producers to get an alternative in color with respect to the common yellow shades or pink nowadays available on the Market.

GFGREEN is FOR FLASH DECORATIVE APPLICATION ONLY being able to deposit thicknesses not higher than 0.2 microns. Moreover it is important to highlight that this solution is completely WITHOUT CADMIUM, Nickel, Lead being REACH compliant.

**Color coordinates**

Coordinate	Value
L	70,8
a	-4,5
b	14,6
c	15,4

**Product form**

	Value
Metal concentration	1 g/l (Au)
Aspect	Liquid
Solution color	Transparent
Time of storage	2 years
Form	Ready-to-use
Chemical system	Acidic
Packaging	1-liter bottle

**Operating conditions**

	Range	Optimal
Voltage (V)	3 – 4	3,5
Current density (A/dm <sup>2</sup> )	1 – 2	1,5
Working temperature (°C)	40 – 60	50
Plating time (sec)	60 – 120	90
pH	2,5 – 3,5	3
Solution density (Bé)	6 – 10	8
Cathodic efficiency (mg/Amin)	2.0 – 3.0	2.5
Anode/Cathode ratio	2:1 – 4:1	2:1
Type of anodes	Ti/Pt	
Agitation of solution and items	Suggested	

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PLATING****GFGREEN****READY TO USE GREEN GOLD FLASH PLATING SOLUTION WITHOUT  
CADMIUM 1g/L****Preparation of the solution in the tank**

GFGREEN is a ready-to-use plating solution coming with a concentration of 1 g/l of fine gold. For this reason, the solution can be poured inside the working tank with no any preliminary preparation steps.

**Solution maintenance**

The plating solution is calibrated for small baths (until 5 liters) and it has to be used until exhaustion with no replenisher additions.

**Post treatment**

The excess of electrolyte dragged out together with the gilded pieces hanged in rack has to be removed as soon as possible. For this reason, after a rinse step inside a tank filled of static pure water follow with a washing operation in pure running water tank. Then, after washing carefully dry.

**Since the green deposit is obtained thanks to organic additives also, it is strongly recommended not to carry out any post-treatment of degreasing or ultrasonic cleaning in order to avoid degradation of the organic components with a consequent decrease in the green tone.**

**For the same reason reported above this plating layer is sensitive to high temperatures therefore cannot be e-coated with varnishes that requires a curing phase under temperatures greater than 80°C.**

**Moreover we recommend ambient temperature drying methods and discourage the use of steam cleaning or oven drying techniques.**

**Safety information**

The pH of GFGREEN is slightly acidic, not too much aggressive. Nevertheless, we recommend caution while using the product and protections for the skin, eyes and mucous. The use of laboratory glasses, gloves and vest are strongly suggested. Classification and designation are noted in the Material Safety Data Sheet (according to the European legislation). The safety instructions and the instructions for the environmental protection have to be followed in order to avoid hazards for people and environment. Please consider the explicit details in our Material Safety Data Sheets.

**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 or 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.*