

Micron Gold Plating Bath JE250

Description

The micron gold plating bath JE250 is suitable for an excellent deposit of gloss retention and hard gold layer up to 10µ. The plating bath contains gold with a small part of cobalt, the fineness amount to 23 ct. The bath guarantees a very constant colour and preservation of the brightness.

Operating data

Gold content	3, 5 or 8 g/l Au
pH-value	3,8 – 4,2
Density	1,05 – 1,15 g/cm ³

Operating conditions

Voltage	2 – 4 Volt
Bath temperature	20 - 40°C
Exposure time	Up to 45 min
Anode material	Plated titanium
Anode/Cathode surface	Ca. 1 : 1
Motion of goods	required
Power density	ca. 0,5 – 0,8 A/dm ²
Bath filtration	Up to 10 liter

Deposition data

hardness	170 – 180 HV
layer thickness	max. 10 µm

Form of delivery

- Prepared
- Salt form

Bath salt form preparing

Take 600 ml heated water then add 50 g make-up salt JE250-A and the favored precious metal content corresponding amount of potassium gold cyanide.

4,5 g potassium gold cyanide – 3 g AU/l
7,5 g potassium gold cyanide – 5 g AU/l
12 g potassium gold cyanide – 8 g AU/l

Bath control /Regeneration

A regeneration has to be effected at the latest gold composition of 20 %. For 1 g isolated fine gold you have to add 1 ml regeneration solution JE-250-R and 10 ml gold salt solution (100 g AU/liter). Frame and rinsing losses are not included. For the control of the isolated precipitation weight recommend we a ampère minute counter.

Furthermore, you should control the pH-value regular and if there any differences you should revise it. At a to high pH-value you should add carefully citric acid and at a to low pH-value you should add carefully 10% caustic potash. Especially on huge bathes should be a bath control in constant intervals happen. For sure we make a bath analysis for you!

Recovery

The used solution contains precious metal, which we work up for you. The recovery of this solution can be profitable off 10 liter. For the recovery of the precious metals can we advise our recovery machine. Talk to us!

Storage

Store it in closed containers and separated from food products in suitable special marked boxes. Do not bring in contact with acids or acidic solutions.

Risks/ Disposal

Used solutions should be disposed of by a specialist company who will treat it before discharging.

Check it with the local water authority for permitted discharge levels.

**Please consider our
Safety data sheet!**