

Anti-tarnish protection CRFg

Status 5.2015

Product description

CRFg is an anti-tarnish solution for gold which does not change the appearance of the gold. It forms a protective film that acts as a chemical insulation and repels dirt and water.

Supplied as

Anti-Tarnish Bath CRFg (ready to use)
Make-Up Concentrate CRFg A (100 ml concentrate)
Make-Up Concentrate CRFg A (1 l concentrate)

Item no. 81012141

Item no. 81012140

Item no. 81012139



Equipment

Container: PVC, PP, PE or stainless steel
Extraction: recommended
Moving product: not required
Bath agitation: it is necessary to agitate the bath from a volume of ten litres to avoid local heat building up above 68°C
Heating element: PTFE or quartz glass heater

Operating parameters

Temperature: 60–65°C
Time: 5 minutes

Bath preparation

Bath chemicals for ten litres of bath formulation:

1,000 ml of Make-Up Concentrate CRFg
9 l of deionised water (<10 µS)

Procedure

Fill the thoroughly cleaned tank to two-thirds with deionised water and heat to 50°C. Heat the make-up concentrate in the bottle in a water bath to 50°C and shake well. Then add it to the preheated tank with constant agitation. Make up the tank to its final volume with deionised water and mix thoroughly. Before use, check the bath temperature.

Process overview

For the process to achieve the best result, the product should be newly gold-plated and **not** degreased. If the coating does need to be cleaned, this should be performed in an ultrasonic bath with subsequent pickling.

Process sequence

- Immersion in anti-tarnish protection (60–65°C, 3–5 min)
- Warm rinse (deionised water 60°C, 1 min)
- Static rinse
- Flow rinse
- Drying (with hot air approx. 60°C)

Bath monitoring

Any losses as a result of evaporation can be compensated for with deionised water. The bath should be replenished every 14 days. To replenish the bath, add 25 ml of Make-Up Concentrate CRFg per litre of the bath. The replenishing solution must be heated up in the bottle in the water bath to 50°C before being added. We also recommend regularly monitoring the pH value because a pH value greater than 8 requires a new bath solution.

Safety measures

The dip solution or parts of this solution as well as aerosols must **not** under any circumstances come into contact with other electroplating baths because this can render them unusable. Take particular care to keep away from stainless-steel baths. We recommend connecting the immersion bath and its rinse water to a separate water circuit.

Hazard information, storage, disposal

The occupational safety measures and regulations specified in the safety data sheet must be observed. The baths must be sealed and stored separately from food in suitable and labelled containers. Spent bath solutions and drag-out rinses must **not** be discharged into the waste water without first being treated.

The information on our product and the method are based on intensive research and technical experience of this application. We provide these results to the best of our knowledge and reserve the right to make technical changes in the course of product development.

However, this does not relieve the user of their responsibility to check our specifications for their own use before application.

If you have any questions or would like a consultation, please contact our application technology service at any time.

We would also be happy to discuss our further electroplating product range.