



Aussiemet



Auro24C

Technical Chart

Aussiemet Superbright Auro24C is 100ml concentrated ready to use bath for 24kt yellow gold plating solution. This process is suited for decorative application or any other application which requires gold flash plating color. The main characteristic of the bath is as follows:

- ◆ Bright Deposition
- ◆ Flash gold plating solution
- ◆ Working temperature at 60 °C
- ◆ Good throwing power

Technical Specification

OPERATING TEMPERATURE	50-60 °C
pH-VALUE	Between 9-11
VOLTAGE	3 - 6 volts optimum at 4 volts
TIME OF EXPOSURE	Up to 60 sec optimum at 35 sec
ANODES	Platinum or Ti/Pt or stainless steel AISI 316

Deposition Data

FINENESS	99.9 %
COLOR	Brilliant
HARDNESS	90-100 HV
THICKNESS	0.1 to 0.2 um

Preparation

Auro24C is concentrated solution and to prepare the ready-to-use solution, add the 100 ml solution to 900 ml of pure deionised water.

Equipment

For small installations (within 5 liters), heat resistant glass vessels are satisfactory.

For larger installations, Polypropylene or PTFE lined tanks are suitable and must have the following:

Rectifier with an Ampere meter and Volt meter producing a DC output with less than 5% ripple. Ampere minute meter

Platinised (2.5 micron Pt) titanium anodes or stainless steel AISI 316

Filter pump with 5 – 15 micron polypropylene cartridge

NOTE:- In order to avoid organic pollution it is recommended to wash and boil the cartridge before using.

Additional Information

PRETREATMENT

- ◆ Electroclean or ultrasonic clean parts to ensure they are free from grease
- ◆ Rinse with deionised water
- ◆ Activate parts in 10% v/v Sulphuric Acid for about 10 - 20 secs
- ◆ Dry

Demineralised Water:-

To prevent contamination of the bath, both during its preparation and in any subsequent topping up operations, use demineralised water with a conductivity of less than 3 $\mu\text{S}/\text{cm}$ any organic compounds, containing no traces of any organic compounds, Silicon or Boron. To achieve maximum deposit quality we recommend using high-grade purity WATER.

Agitation:-

For maximum performance, particularly in terms of color, do not use excessively vigorous agitations. So, for processing tanks containing considerably large volumes agitation of the solution using a magnetic drive filter pump of not too high a capacity is recommended, while for containers of modest size moderate agitation of the pieces is adequate.

Temperature:-

Optimum performances are obtained at 60°C working temperature.

NOTES:-

Aussiemet always recommends:

1. Before handling any ordered product please carefully read the relevant MSDS .
2. Please treat spent solutions in accordance with the in place regulations



Aussiemet

Website: www.aussiemet.com.au,

Email: info@aussiemet.com.au, sales@aussiemet.com.au,

89 SOMERSBY CIRCUIT, ACACIA GARDENS, NSW 2763, AUSTRALIA