





AURUNA® 5400

HARD GOLD ELECTROLYTE



For Depositing Uniformly Bright Coatings

AURUNA® 5400 the weakly acidic electrolyte deposits yellow, uniform bright hard gold coatings. The newly balanced brightener system of the electrolyte enables the operation in a very wide current density working range and allows a variable gold content at the same time. Due to the usage of special chemical components, the AURUNA® 5400 is equally suitable for rack and barrel application.

The deposited coatings are characterized by low porosity and an increased abrasion resistance, compared to coatings deposited in AURUNA® 539. Furthermore contacts coated with AURUNA® 5400 exhibit a low and long-time stable contact resistance and an excellent solderability. As well coatings up to 10 μ m can be crack-free depositied in the electrolyte.



Advantages

- Very wide operating current density range
- For technical and decorative applications
- $\boldsymbol{\cdot}$ High corrosion and abrasion resistance
- · Low, stable contact resistance
- Classification according to ASTM B 488-01: Type I II, grade C -D

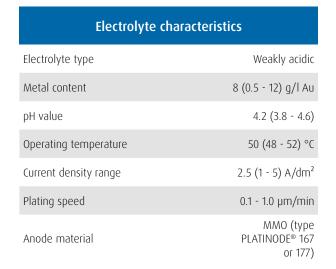
Applications

- Contact pins, contact springs, contact plugs
- Contact materials
- · Slip rings

AURUNA® 5400

HARD GOLD ELECTROLYTE







Coating characteristics	
Coating	Gold-Cobalt
Alloy composition (according to ASTM B 488-01)	99.7 wt.% Au 0.3 wt.% Co
Colour of deposit	Yellow
Brightness	Bright
Hardness of deposit HV 0.015 (Vickers) approx. values	150 - 220 HV
Max. coating thickness	Crack-free up to 10 µm
Classification acc. to ASTM B-488- 01 (depending on operating conditions)	Type I-II, Code C-D (equivalent to IC-IID according to MIL-G-45204C)
Solderability	ZCT < 0.2 s
Density of the coating	Approx. 17 g/cm³

Umicore Galvanotechnik GmbH

Klarenbergstrasse 53-79

Technical Support: Phone +49 7171 607-365
Sales Department: Phone +49 7171 607-204



