



GUANGZHOU MATEYS CHEMICALS LTD.

SCO-3 Black Nickel Free Sn-Co Alloy Plating

1、Specifications

- (1) Black bright deposit
- (2) Good hardness
- (3) Stable solution for easy maintenance
- (4) Perfect coverage skill
- (5) Barrel use
- (6) Suitable for any black decorative like diamonds, watches, belts, glasses etc.

2、Fittings

Items	Status
Tank	PVC, PP
Rectifier	Standard direct power attached ASD, voltmeter and current controller
Anode	Carbon plate
Agitation	Mechanism, recirculating filtration in turns at 1-2m/min
Filtration	at least 4 times/hour
Temperature Control	Carbon or Ti heater & thermostat

3、Conditions

Compositions	Range	Perfect
Tin(II) chloride dehydrate($\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$)	4-10 g/L	10 g/L
Cobalt sulfate($\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$)	20-40 g/L	30 g/L
Potassium pyrophosphate($\text{K}_4\text{P}_2\text{O}_7$)		320 g/L
SCO.1		100 mL/L
SCO.3	20~40 mL/L	20 mL/L
Cathode current density	0.2~2 A/dm	0.8 A/dm
Temperature	25 ~40 °C	33 °C
pH value	8.5~9.0	8.7
Ratio (anode : cathode)	1:1~1:3	1:2
Agitation	Medium	Air agitation
Time	1 ~ 3 mins	1.5 mins



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Remarks. Pls kindly give us an email for more details.

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