



GUANGZHOU MATEYS CHEMICALS LTD.

WCS-300 Bright Cu-Sn Alloy Plating Agent

1. Specifications

- (1) Silver bright deposit
- (2) Deposit contains 55% Cu, 39% Sn, 6% Zn
- (3) Perfect wear resistance & corrosion resistance
- (4) High hardness in 600HV.
- (5) Keep perfect gloss & compact of underlayer
- (6) Be underlayer in Gold, Silver, Palladium, Rhodinol plating & brighter plating

2. Composition & Concentration

Composition	K	Na
KOH (NaOH)	7.5 g/l	6 g/l
KCN 98%-99%	43 g/l	32 g/l
$Cu_2(CN)_2$	9 g/l	8 g/l
K_2SnO_3	23 g/l	20 g/l
ZnO	1.0 g/l	1.0 g/l
WCS-300 Starter	50 ml/l	
WCS-301 Brightener	2 ml/l	
WCS-302 Complex	50 ml/l	

Add the above six in turn until fully dissolve, take activated carbon treatment until its clear, add additives, and attenuate with purified water until operating level, then plate.

3. Composition & Conditions

(1) Composition

Composition	Standard	Range
Cu	5.5 g/l	4-8 g/l
Sn	11 g/l	8-15 g/l
Zn	1.0 g/l	0.8-1.5 g/l
KCN ion	36 g/l	30-45 g/l
KOH	7.5 g/l	5-10 g/l
Temperature	60°C	58-62°C
pH value	12.5	12.0-13.0

(2) Conditions



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Parts rolling	If need
Filtration	Filter $\leq 10\mu\text{m}$, filtrate min. per hour at 2-3 times
Current density	1 ASD
Anode current density	Max. 1 ASD
Deposition rate	Close to $0.31\mu\text{m}/\text{min}$ at 1 ASD
Deposition	Close to 1.45g/AH at 1 ASD
Current efficiency	Close to 90%
Deposit density	Close to $8.2\text{g}/\text{cm}^3$
Current load	Max. 0.3 A/L at lasting load
Deposit max thickness	$5\mu\text{m}$

Deposit thickness/ Deposit time

Deposit alloy (mg) = Area (cm^2) X 0.82 X Deposit thickness (μm)

Deposit time (min) = Deposit alloy (mg) / 24/17 / Current (A)

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

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