



NON-CYANIDE ALKALINE COPPER PLATING PRODUCTS



Commodity Name

HN-CS200 NON-CYANIDE COPPER PLATING



Bath Composition and Working Conditions

Make up Part A HN-CS100A	350~450 ml/L
Make up Part B HN-CS100B	80~120 ml/L
Brightener HN-CS200	1~3 ml /L
Replenisher HN-CS300	periodical replenish to maintain the concentration
Cu Content	3~5 g/L
Temperature	50~60°C
pH	9~10
Current Density	0.4~2.0 A/dm ²
Anode	electrolytic copper
Agitation	even air agitation



Application and Advantage

1. The plating bath is completely cyanide-free and environmentally friendly.
2. The plating bath does not contain some heavy metals and other SVHC, e.g. Pb, Cd, Hg, PBB, PBDE, and meets RoHS requirement.
3. Iron, copper, bronze, steel, Zi/Al and Electroless Nickel can be plating, both rack/barrel plating are available.
4. It promotes a dense, fine-grained and flexible layer with good adhesion.
5. Copper layer directly turns black or oxidizes as different color, it is applicable to photo frame, light decoration, furniture, etc.
6. Disposal of waste becomes simple because the solution does not contain complex agent.
7. The total cost will be reduced as copper anode is dissolved while electrolyzing, which reduces the make-up solution yield.



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