



Metal deposition



Cudega[®] blend Sn white 15

Nickel replacement with good corrosion protection without toxic heavy metals

Cudega[®] blend Sn white 15 is an alkaline cyanidic electrolyte for producing a white coloured alloy of copper, zinc and tin and is free of any toxic metals, especially free of lead.

The bath can produce mirrorbright layers up to 5µm.

Cudega[®] blend Sn white 15 can be used for decorative plating in jewellery industry (nickel free products!) as well as on the technical sector for example to electrical contacts



Properties and Benefits

- Free of toxic metals
- White colour
- Long bath shelf life
- Good corrosion protection
- $L^* = 88, a = +0,2, b = +4,5$

Application area

- Jewellery
- Buttons
- Zip closure
- Watches
- Electrical contacts
- Technical applications

Cudega blend Sn white 15_E

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Technical Data

Electrolyte parameters		
Parameter	Range	Optimum
Copper	10 – 14 g/l	12 g/l
Tin	23 – 27 g/l	25 g/l
Zinc	0,8 – 1,2 g/l	1,0 g/l
KCN _{free}	33 – 37 g/l	35 g/l
KOH	8 – 12 g/l	10 g/l
Temperature	55 – 62 °C	55 °C
Anodes	Graphit/Mixed oxides	
Cathodic current density	0,5 – 1,5 A/dm ²	
Anodic current density	max. 1 A/dm ²	
Current efficiency	15-20 mg/Amin	
Rate of deposition	approx. 1 µm in 5 min at 1A/dm ²	

Deposit characteristics

Copper.....	~ 52 %
Tin	~ 44 %
Zinc.....	~ 4 %
Specific gravity of deposit	~ 8,0 g/cm ³ - 8,2 g/cm ³
Hardness of deposit	450 HV ₂₀

Products available

3061000.....	IWG Copper solution No. 42
3722900.....	IWG Zinc solution No. 53
3723060.....	IWG Zinc salt No. 50
3723040.....	IWG Tin solution No. 72
3723050.....	IWG Tin salt No. 70

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3723000.....	Cudega® blend Sn white Make up
3723010.....	Cudega® blend Sn white 15 Brightener 1
3723020.....	Cudega® blend Sn white 15 Wetting agent
3723030.....	Cudega® blend Sn white 15 Brightener 2
0021200.....	Potassium cyanide
1258100.....	Potassium hydroxide
1234000.....	Potassium carbonate

FOR ANY FURTHER INFORMATION WE WILL BE PLEASED TO BE AT YOUR DISPOSAL PERSONALLY UNDER +43 (0)2287 71073 OR OFFICE@IWGPLATING.COM

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