



GUANGZHOU MATEYS CHEMICALS LTD.

MASTER Acid Copper Plating Brightener

1、 Specifications

- (1) Speed brightening, excellent coverage and throwing skill to reach high level
- (2) Stable solutions
- (3) High tolerance to mix with other acid copper brighteners easily
- (4) Long-term use without harmful decomposition
- (5) Wide range of current density to reach a mirror bright deposit, also high level and gloss in low area
- (6) Strong heat resistance
- (7) Wide range of working temperature to get wonderful gloss even in high temperature and work without refrigerating equipment
- (8) Consumption increases as the temperature goes up
- (9) Strong anti-impurity skill against pits, bare spots and foggy
- (10) Easy operation, low consumption

2、 Applications

- (1) Suitable for plating on high-need lighting, various hardware and furniture
- (2) Plastic electroplating
- (3) Platings with thickness requirements like printing barrels plating

3、 Composition & Conditions

- (1) **CuSO₄ & H₂SO₄**

Composition	Range	Standard
Cupric sulfate(CuSO ₄ •5H ₂ O)	160-230 g/l	200 g/l
Sulfuric acid(H ₂ SO ₄)	50-70 g/l	60 g/l
Cl ions	50--100 mg/l	75 mg/l
Master MU Startup	4—8ml/l	6ml/l
Master A Throwing Agent	0.4—0.8 ml/l	0.6ml/l
Master B Brightener	0.3—0.6 ml/l	0.4 ml/l
Cathode current density	1.5—8A/d m ²	
Anode current density	0.5—30 A/d m ²	
Temperature	24°C(18--40°C)	
Agitation	Strong and uniform air agitation	



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The anode	Phosphorus copper plate with Titanium baskets and anode bags
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To get a perfect deposit within the above range, too low of Copper or H_2SO_4 may be easier to get dendritic lines in high area. Suggest users to keep beyond 65g/L of H_2SO_4 .

(2) Cl ions

(3) Brighteners

Master MU

Master A

Master B

(4) Temperature

(5) Agitation

(6) Filtration

(7) Cathode current density

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

ADD: 25 Jianhua Rd., Tianhe Software Park, Keyun Rd.,

Tianhe Dist., Guangzhou, China510665

TEL: +86 20 85576176/85555261/85555262

CEL: +86 13922181787 Skype: gzmateys

Email: gzmateys@qq.com gzmateys@163.com

URL: www.gzmateys.com/en gzmateys.en.alibaba.com