thermoscientific

APPLICATION UPDATE 111

Copper Gleam PCM or PC in acid copper baths

Keywords

Brightener, acid copper plating, printed circuit boards, ion chromatography, IC, Dionex ICS-5000⁺

Performance

The major active component in Copper Gleam[™] PCM or Copper Gleam[™] PC can be determined down to 0.01% in acid copper baths. The manufacturer's suggested concentration range is 0.4% to 1.0%.

Application areas

- Acid copper plating
- Printed circuit boards

Equipment

Thermo Scientific[™] Dionex[™] DX-500 Ion Chromatography system*

* Equivalent or improved results can be achieved using the Thermo Scientific[™] Dionex[™] ICS-5000⁺ HPIC[™] system with a Thermo Scientific[™] Dionex[™] ICS-Series VWD Variable Wavelength Detector.





Conditions	
Column:	Thermo Scientific [™] Dionex [™] IonPac [™] NS1
Eluent:	10 mN H₂SO₄ 10% CH₃CN
Flow Rate:	1 mL/min
Sample Volume:	50 µL
Detection:	UV/Vis, 254 nm

Sample preparation

Samples are injected directly using a 50 μL sample size.

Figure 1. Pure Copper Gleam PCM at 254 nm.



Figure 2. Determination of brightener in acid copper baths by ion chromatography.

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