

Technic CU 2800

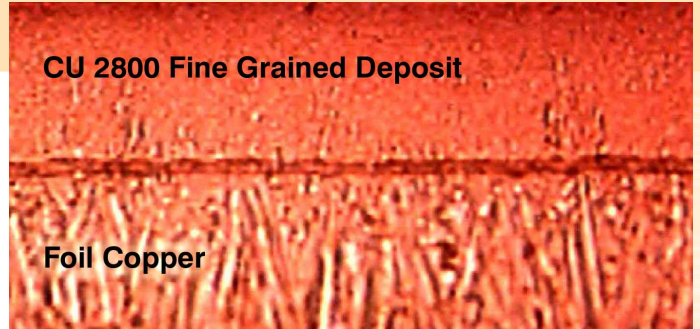
TECHNIC CU 2800 is a truly unique acid copper plating process specifically designed to meet the demands of today's complex printed circuit board designs. Providing excellent throwing power over a wide current density range, Technic CU 2800 offers specific advantages in:

- **Low current density processing for improved distribution on demanding designs**
- **Increased production capacity on standard product**

The superior throwing power of **Technic CU 2800** results in uniform deposits with good ductility and a fine-grained equiaxed structure. The process utilizes a one-component system for amp-hour based replenishment. Individual components are available for optimization of specific applications. The additive system is extremely stable and completely analyzable.

SUPERIOR LEVELING

The brightener molecule, designed and manufactured by Technic, provides both grain refinement and leveling of the deposit. Unlike other systems that utilize high levels of sulfur bearing additives to level rough topography, **Technic CU 2800** provides leveling without a third component that can negatively effect deposit performance.



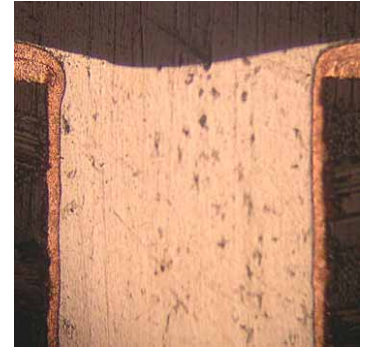
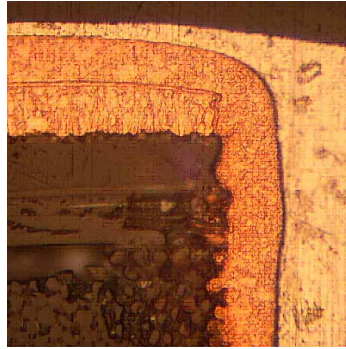
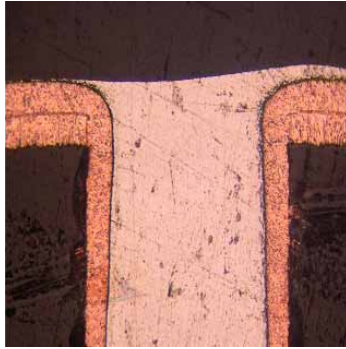
The result is elongation over 20%, tensile strength over 45,000 PSI and the ability to pass multiple solder floats consistently.

Foil 10 ASF			Foil 15 ASF		
Thickness (mils)	Elongation (%)	Tensile Strength (KPSI)	Thickness (mils)	Elongation (%)	Tensile Strength (KPSI)
2	22 Ave	48 Ave	2	21 Ave	46 Ave

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Thermal Shock Conditions

Temp: 550° F (288° C)
Time: 10 second float
Cycles: 6 cooling to room temp
after each float
Results: No failures observed



THERMAL SHOCK RESULTS

The excellent elongation characteristics of this additive system make it ideally suited where mechanical stress resistance is critical. The copper deposited from the **TECHNIC CU 2800** process meets all military, IPC and specific OEM requirements for purity, elongation, thermal cycle and thermal shock resistance.

EXCELLENT THROWING POWER

The **Technic CU 2800** acid copper was specifically engineered to provide high throw without the high cost of PPR rectification. The result is the capability of plating a higher current density than standard acid copper while achieving equivalent or higher copper deposit in the through hole. This can mean 25 microns (1 mil) in the center of the hole in 10 – 20% less time.

Hole Diameter (inch)	Aspect Ratio	Throwing Power	
		15 ASF	25 ASF
0.01	10:1	83.3%	83.3%
0.12	8.3:1	82.9%	83.3%
0.24	4.2:1	100%	96.3%

The **TECHNIC CU 2800** process is fully analyzable and can be monitored and replenished based on actual bath consumption of the individual components by using Technic's patented **EB Analyzer**. This easy to use monitoring system analyzes the copper, sulfuric acid, and the two **TECHNIC CU 2800** components, Carrier and Brightener, offering complete control for

the components of the acid copper process.

This level of control results in improved plating performance and ensures process consistency.



Technic EB Analyzer

 **TECHNIC INC**
www.technic.com
info@technic.com
(401) 781-6100

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