

AU1 Gold Conductor Etchant

Union Etchant International's (UEI) premium AU1 gold conductor etchant is designed for photo-etching ultra-precision mini-circuits and chemical milling micro-components. AU1's carefully controlled formula is ideal for etching hybrid thin film circuits, such as resistor-conductor and microwave conductor patterns.

The formulation of UEI's AU1 Gold Etchant is one of the strongest available today and offers many advantageous features and benefits.

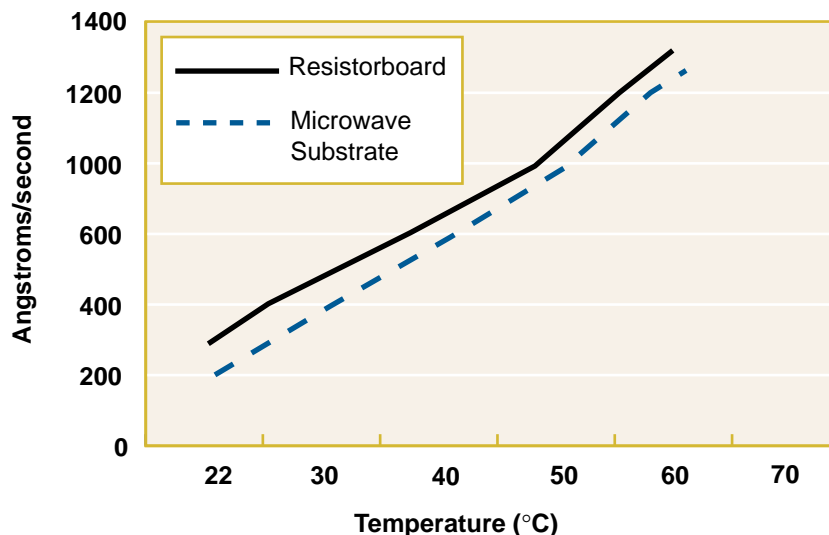
Longer lasting: AU1 is specially formulated to retain more gold in solution. Because it is long lasting, you optimize your production schedule and minimize downtime.

Fast etching rate: AU1 selectively, rapidly, and uniformly dissolves vacuum-deposited gold with minimum undercutting. The typical etching rate for 24-karat-gold thin film is approximately 500-800 Angstroms per second at 40-50 degrees C. AU1 provides excellent photo pattern resolution and definition and does not adversely affect photo resists.

Features

- Longer lasting
- Fast etching rate
- Cyanide-free
- Enhances gold recovery when used with UEI's GOLDOUT™
- Convenient and ready-to-use
- Custom formulations available

Etch Rate vs. Temperature



Cyanide free: The AU1 solution contains no cyanides. It is a stable and reliable etchant that is safer to use than other gold etchants on the market.

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Enhances gold recovery: UEI's complementary gold recovery product, GOLDOUT™, recovers 99.4% of the gold from spent AU1. As a result, UEI's spent etchant is less hazardous to dispose than that of other gold etchants on the market. Easy, on-site gold recovery is an added benefit for semiconductor manufacturers, when you consider the price of gold on the market.

Convenient and ready-to-use: UEI's AU1 Etchant does not require mixing or heating, saving you time and money.

Custom formulations available: UEI will formulate AU1 to meet your process specifications and ensure batch uniformity and consistent performance.

About Union Etchants International

UEI manufactures stock and custom-formulated iodine-based etching solutions at a competitive cost. All UEI chemicals are processed with the highest quality materials with the consistency and repeatability necessary for the most critical processes. In addition, UEI uses a high-purity water system to formulate its liquid products.

UEI's products are batch controlled and shipped in various size packages to suit customer requirements. All packages are UN approved and certified.

UEI stock products are ready-to-use and include:

- AU1 Gold Conductor Etchant (liquid or powder form)
- GOLDOUT™ (powder form)
- CR1A Chrome Etchant (liquid form)
- GaP1 Gallium Phosphide Etchant (liquid form)

For more information about UEI and UEI products, call 781-935-8878 or visit www.unionetchants.com.



UEI's AU1 Liquid Form Etchant



UEI's AU1 Powder Form Etchant



www.unionetchants.com

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