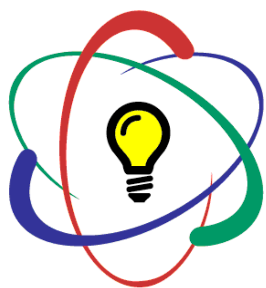

AUTOMATED CHEMICAL SOLUTIONS

Chemicals and Controllers for PWB Fabrication

Product Overview

μETCH EM-2110

Copper Microetch

Product Description

EM-2110 is a concentrated microetch additive designed to improve the performance and stability of generic hydrogen peroxide/sulfuric acid microetches. EM-2110's hydrogen peroxide stabilizers virtually eliminate destabilization loses. Etch accelerators and modifiers increase etch rate and improve surface topography. The result is a superior surface and improved performance for all processes requiring a microetch at remarkably low operating costs.

FEATURES	BENEFITS
Completely stabilizes hydrogen peroxide in the presence of metal ions even at elevated temperatures	Reduces operating cost through decreased consumption
Rate enhancing additives	Increases etch rate without increasing consumption
Etch modifiers	Improves surface topography for increased coverage and adhesion in subsequent processes

Physical Properties

Specific gravity:	1.09
pH:	6-8
Appearance:	clear, water white to amber liquid
Freezing point:	<40 °F

Operating Parameters

Copper loading:	3 – 7 oz/gal (22.5 – 52.5 g/L)
Hydrogen peroxide concentration:	3% – 6% (as 50% hydrogen peroxide) 4.3% - 8.6% (as 35% hydrogen peroxide)
Sulfuric acid concentration:	5% – 10%
Temperature:	80 °F – 100 °F

Safety

Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Read and understand Material Safety Data Sheet before using this product.

Notice

The information and recommendations of Automated Chemical Solutions, Inc., and its representatives, regarding this product are, to the best of our knowledge, true and accurate. We make no guarantee of results because the conditions of actual use are beyond our control. We assume no liability for damages or penalties resulting from the use of this product or following our recommendations. Our recommendations and suggestions for use of this product are not intended to grant license to operate under or infringe any patent.

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