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Microetch Copperwet 1174

Description:

Copperwet 1174 is a dry acidic etching salt for the pre-treatment process prior to the electroless or electrolytic plating of printed circuit boards. It does not contain any ammonium ions to avoid effluent disposal problems.

For 1 litre you will require:

Microetch CW 1174	120 g/l
96% Sulphuric Acid	20 ml/l
De-Ionised Water	To make 1 litre

Slowly add the sulphuric acid into the water of 75% tank volume with good stirring to avoid over heating and spattering, then the **Copperwet 1174** is added and well stirred. Finally top up to the required volume. After the solution cools down to 25°C, it is ready for use.

Working Data:

	<u>Best</u>	<u>Min/Max</u>
Microetch CW 1174	120g/l	110-130g/l
H ₂ SO ₄	20 ml/l	15-30 ml/l
Temperature	25°C	20-30°C
Time	1 min	1-2 min
Agitation	Air or Mechanical agitation	
Etch rate	0.35-0.5 micron per minute	



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Bath Replenishing;

The **Copperwet 1174** solution will give a uniform, matt etch on copper surfaces in one to two minutes. When etch times become excessive, the bath may be regenerated by further additions of dry powder. This addition should not exceed the original make-up concentration by 50%.

For 1000ft² PC board treated, the working solution should be discarded by 50% and replaced by new make up solution. If copper content exceeds 15g/l, a new bath should be made up.

Health and Safety;

Microetch CW 1174 is harmful. Contact with the eyes should be avoided when using this material.