

PROCIRC 9132

MICROETCH/CLEANER

INTRODUCTION

Procirc 9132 Microetch /Cleaner is a powerful immersion product specially developed for cleaning soiled and tarnished copper and for removal of the intermetallic alloy which remains after 1st stage tin/lead stripping with Procirc 9342 Tin/ Lead Stripper.

It serves as an ideal pre-treatment for hot air solder levelling and roller tinning applications.

BENEFITS

Contains a powerful anti-tarnish system.

High detergency properties for effective cleaning.

Controlled minimal microetch for even finish.

Excellent 2nd stage tin/lead stripper for fast intermetallic removal

SOLUTION MAKE-UP

Procirc 9132 Microetch/Cleaner 25-100% v/v with water

OPERATING DATA

Temperature	25 - 35 deg C.
Time	30 - 60 secs.
Agitation	Recommended.
Extraction	Recommended.

Copper Etch Rates:-

<u>% Concn 9132</u>	<u>Etch Rate (Micron/Min) at 35°C</u>
25	0.10
50	0.20
100	0.45

EQUIPMENT

Tanks	Polypropylene, polyethylene, unplasticised PVC, titanium.
Heaters	PTFE, silica sheathed or titanium with thermostatic control.

If in any doubt as to the compatibility of equipment, please consult PMD (UK) Limited Technical Department.

INSTALLATION

It is essential that the tanks to be used for Procirc 9132 Microetch/ Cleaner are cleaned and leached thoroughly before any product is added.

Contact PMD (UK) Limited Technical Department for appropriate procedure.

1. Fill tank with appropriate amount of water.
2. Add the required volume of Procirc 9132 Microetch/ Cleaner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

A. MICROETCH/CLEANING

1. Procirc 9132 Microetch/Cleaner.
2. Rinse.
3. Rinse
4. Dry.

B. TWO STAGE TIN/LEAD STRIPPING

1. Procirc 9342 Tin/Lead Stripper.
2. Rinse.
3. Rinse.
4. Procirc 9132 Microetch/Cleaner.
5. Rinse.
6. Rinse.
7. Dry.

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MAINTENANCE AND CONTROL

Replace drag out losses with fresh Procirc 9132 Microetch/Cleaner at the relevant concentration.
Analyse for concentration and replenish with Procirc 9132 Microetch/Cleaner as required.

THROUGHPUT

Under optimum processing conditions 500 dm² (50ft²) of laminate area per litre of working solution (50%v/v) can be expected.

ANALYSIS METHODS

PROCIRC 9132 MICROETCH / CLEANER CONCENTRATION

Reagents

0.1 N Sodium hydroxide

Method

1. Pipette 2mls of the working solution into a 250ml beaker.
2. Add approximately 100mls DI water.
3. Titrate to pH 4.5 with 0.1 N sodium hydroxide using a pre-buffered pH meter.
4. Record titres = t mls.

Calculation

% Concentration Procirc 9132 = t x 3.21

Replenishment

For every 1% drop in concentration add 10ml/L Procirc 9132 Microetch / Cleaner to the working solution.

DISPOSAL

Dispose of in accordance with local authority requirements

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PRODUCT FAMILIES

The following products or product families are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
Procirc 9132 Microetch/Cleaner	917014
Procirc 9342 Tin/Lead Stripper	937018

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