

PMD (UK) LTD PROCESS DATA

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ISSUE 4

PREV 3

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PROCIRC 903

ACID CLEANER

INTRODUCTION

Procirc 903 Acid Cleaner is a powerful cleaner/deoxidiser for copper, specially formulated as an immersion cleaner for use on manual or automatic pcb lines. Ideal as a first stage cleaner in pattern plate lines but can be used in all stages of pcb production.

BENEFITS

Contains no chloride.

Free rinsing - eliminates staining.

Does not degrade dry film materials.

Liquid concentrate for easy make-up and economy.

SOLUTION MAKE-UP

Procirc 903 Acid Cleaner 10 - 25% v/v (Optimum 20%) with water.

OPERATING DATA

Temperature	30 - 40 deg C
Time	1 - 5 mins
Agitation	Gentle work movement preferred.
Extraction	Recommended

EQUIPMENT

Tanks Polypropylene, polyethylene or unplasticised PVC.

Heaters Thermostatic Controlled, PTFE or Teflon Coated.

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

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INSTALLATION

It is essential that the tanks to be used for Procirc 903 Acid Cleaner are cleaned and leached thoroughly before any product is added.

If in any doubt as to the cleaning procedure contact PMD (UK) Limited Technical Department.

1. Fill the clean empty tank with the appropriate amount of water.
2. Add the Procirc 903 Acid Cleaner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Clean in Procirc 903 Acid Cleaner.
2. Rinse.
3. Rinse.
4. Continue dependent upon application.

MAINTENANCE AND CONTROL

The solution should be regularly analysed and replenished (See analysis methods).

Evaporation losses should be replaced using water.

ANALYSIS METHODS

Reagents

1.0N Sodium Hydroxide (Standard Volumetric Solution).
Methyl Orange Indicator (0.4 g in 100 ml of 20% methanol).

Method

1. Pipette 5 ml of working solution into a 250 ml conical flask.
2. Add approximately 100 ml water and mix thoroughly.
3. Add 1 ml of methyl orange indicator and mix thoroughly.
4. Titrate with 1.0N Sodium Hydroxide Solution to a yellow end point.
5. Record titre = t mls.

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ANALYSIS METHODS CONTD

Calculation

$t \times 1.45 = \% \text{ v/v Procirc 903.}$

Replenishment

For every 1% drop in concentration add 10 ml/l Procirc 903 Acid Cleaner to the working solution.

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

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

<u>Product Name</u>	<u>Product Number</u>
Procirc 903 Acid Cleaner	907003

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