

PMD (UK) LTD PROCESS DATA

SP264-07/02

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PREV 5

PROCIRC SP264 ACID CLEANER

INTRODUCTION

Procirc SP264 Acid Cleaner is a specially formulated cleaner/conditioner for copper which is designed to provide a powerful cleaning action. It is especially useful for removing dry film/developer/soldermask residues in all applications of pcb manufacture.

BENEFITS

Powerful cleaning action removes dry film/developer/soldermask residues.

High detergency removes finger prints and tarnish.

Suitable for use in dip lines at all stages of PCB manufacture.

SOLUTION MAKE-UP

Procirc SP264 Acid Cleaner

3 - 10% v/v with water.

OPERATING DATA

Temperature	40 - 65 deg C
Time	2 - 5 minutes
Agitation	Gentle work movement preferred.
Extraction	Recommended.

EQUIPMENT

Tanks Polypropylene, unplasticised PVC or Titanium.

Heaters PTFE, Teflon coated or titanium all with thermostatic control.

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

INSTALLATION

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It is essential that the tanks to be used for Procirc SP264 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 SP264 Acid Cleaner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Clean in Procirc SP264 Acid Cleaner.
2. Rinse.
3. Rinse.
4. Continue dependent upon application.

MAINTENANCE AND CONTROL

The solution should be regularly analysed and replenished as necessary (see analysis methods).

THROUGHPUT

Under optimum processing conditions it is recommended that the bath be discarded after approximately 400 dm² (40 ft²) laminate per litre of working solution has been processed.

ANALYSIS METHODS

Reagents

0.1N Sodium Hydroxide (Standard Volumetric Solution)
Phenolphthalein Indicator.

Method

1. Pipette 10ml working solution into a 250 ml conical flask.
2. Add approximately 50 ml water and mix thoroughly.
3. Add 2 - 3 drops of phenolphthalein and mix thoroughly.
4. Titrate with 0.1N Sodium Hydroxide to the first permanent pink end point.

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5. Record titre = t mls.

Calculation

$t \times 0.675 = \% \text{ v/v Procirc SP264 Acid Cleaner.}$

Replenishment

For every 1% drop in concentration add 10 ml/l Procirc SP264 Acid Cleaner.

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 SP264 Acid Cleaner	907004

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