

PROCIRC 9027

Acid Cleaner

INTRODUCTION

Procirc 9027 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 9027 Acid Cleaner 3 - 10% v/v with water

OPERATING DATA

Temperature	40 – 65°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 Chemicals Limited Technical Department.

INSTALLATION

It is essential that the tanks to be used for Procirc 9027 Acid Cleaner are cleaned and leached thoroughly before any product is added.

If in any doubt as to the cleaning procedure contact PMD Chemicals Limited Technical Department.



1. Fill the clean empty tank with the appropriate amount of water.
2. Add the Procirc 9027 Acid Cleaner and mix thoroughly.
3. Heat to the operating temperature.

PROCESS SEQUENCE

1. Clean in Procirc 9027 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 METHOD

Reagents

0.1N Sodium Hydroxide (Standard Volumetric Solution)

Phenolphthalein Indicator.

Method

1. Pipette 10ml Sodium Hydroxide 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.
5. Record time = t mls.

Calculation

$t \times 0.658 = \% \text{ v/v Procirc 9027 Acid Cleaner.}$

Replenishment

For every 1% drop in concentration add 10 ml/l Procirc 9027 Acid Cleaner.

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Procirc 9027 Acid Cleaner	907022

Whilst every endeavour has been made to ensure that the information given in this data sheet is correct, PMD Chemicals Limited gives no warranty, express or implied, relating to the use or performance of this product.