

PMD (UK) LTD PROCESS DATA

PMD (UK) Ltd, Broad Lane, Coventry, CV5 7AY, England. Telephone 024 7646 6691 Fax 024 7647 3034
Web Site: www.pmdgroup.co.uk Email: sales@pmdgroup.co.uk

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PROCIRC 945E **RESIST STRIPPER**

INTRODUCTION

Procirc 945E Resist Stripper has been developed for the extremely fast removal of dry film photoresists in dip and spray applications. The process can strip many of the plating and etch resists used for printed circuit manufacture.

Please contact your PMD Technical Sales Representative for advice on the process for your needs.

BENEFITS

Extremely fast removal of dry film photoresists.

Does not contain toxic glycol ethers or inorganic alkalis.

No activation or attack of tin/lead.

Bright stain-free copper finish for AOI.

SOLUTION MAKE-UP

Procirc 945E Resist Stripper 10% v/v nominal with water.

NB During the use of Procirc 945E Resist Stripper in spray applications the use of an antifoam may be required.

Foam can be controlled using Procirc antifoams. Contact PMD (UK) Limited Technical Department for further information.

OPERATING DATA

Concentration	10% v/v in water.
Temperature	45 - 55 deg C.
Time	Typical values: Spray 30 - 60 secs. Dip 45 - 120 secs.
Agitation	Preferred but not essential.
Extraction	Recommended.

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EQUIPMENT

Tanks	Stainless steel, titanium, polypropylene or unplasticised PVC.
Heaters	Teflon coated, titanium, PTFE, stainless steel all with thermostatic control.
Filtration	Rotary drum, bag or hydrocyclone recommended.

INSTALLATION

It is essential that the tanks to be used for Procirc 945E Resist Stripper are thoroughly cleaned and leached before any product is introduced.

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

1. Fill the clean empty tank with the appropriate volume of water.
2. Add the required amount of Procirc 945E Resist Stripper and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Resist strip in Procirc 945E Resist Stripper.
2. Rinse.
3. Rinse.
4. Continue dependent upon application.

MAINTENANCE AND CONTROL

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

Evaporation losses should be replaced with water.

Concentration losses should be replaced with Procirc 945E Resist Stripper.

ANALYSIS METHODS

Reagents

1.0 N hydrochloric acid (standard volumetric solution).
Phenolphthalein indicator.

Method

1. Pipette 10 ml working solution into a 250 ml conical flask.
2. Add approximately 50 ml water and mix thoroughly.
3. Add 2 - 3 drops phenolphthalein indicator and mix thoroughly.
4. Titrate with 1.0 N hydrochloric acid to colourless end-point.
5. Record titre = t ml.

Calculation

$t \times 0.93 = \% \text{ concentration Procirc 945E Resist Stripper.}$

Replenishment

For every 1% drop in concentration add 10 ml/l Procirc 945E Resist Stripper.

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
Procirc 945E Resist Stripper	945012

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