

PMD (UK) LTD PROCESS DATA

901-06/02

ISSUE 4

PREV 3

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PROCIRC 901 CLEANER/CONDITIONER

INTRODUCTION

Procirc 901 is an effective, multi-use immersion cleaner for copper which can be used in all stages of pcb manufacture. It is formulated to be a neutral pH, non-chloride, non-etching and free rinsing cleaner which can be used on flexible circuits.

BENEFITS

Neutral pH	No degradation of dry film resists. Useful for use on flexible circuits.
High Detergency	Excellent cleaning.
Removes tarnish.	
Non Etching to Copper.	
Free Rinsing.	
Liquid Concentrate.	For ease of make-up and economy.

SOLUTION MAKE-UP

Procirc 901 Cleaner/Conditioner	50% v/v with water.
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OPERATING DATA

Temperature	20 - 50 deg C
Time	3 - 5 minutes
Extraction	Recommended

EQUIPMENT

Tanks	Polypropylene, Polyethylene, Unplasticised PVC, Stainless Steel, Titanium.
Heaters	PTFE, Teflon Coated, Stainless Steel or Titanium, all with thermostatic control

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

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INSTALLATION

It is essential that the tanks to be used for Procirc 901 cleaner/conditioner are thoroughly cleaned and leached 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 volume of water.
2. Add the Procirc 901 cleaner/conditioner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Clean in Procirc 901 cleaner/conditioner.
2. Rinse.
3. Rinse.
4. Continue dependent upon application.

MAINTENANCE AND CONTROL

The solution should be regularly analysed and replenished as necessary.

Evaporation losses should be replaced using water.

Concentration losses should be replaced with Procirc 901 cleaner/conditioner.

ANALYSIS METHODS

Procirc 901 Cleaner/Conditioner Concentration

Reagents

0.1N Iodine Solution (Standard Volumetric Solution)
0.1N Sodium Thiosulphate(Standard Volumetric Solution)
1.0N Hydrochloric Acid
Iodine Indicator

Method

1. Pipette 1 ml of working solution into a 250 ml conical flask.
2. Pipette 50 ml of 0.1N Iodine solution into the flask and mix thoroughly.
3. Add 10 ml of 1.0N Hydrochloric Acid to the flask and mix thoroughly.
4. Add approximately 100 mls water and mix thoroughly.
5. Titrate with 0.1N Sodium Thiosulphate to a clear end-point using Iodine Indicator.
6. Record titre = t mls.

Calculation

$(50 - t) \times 3.150 = \% \text{ v/v Procirc 901 Cleaner/Conditioner.}$

Replenishment

For every 1% drop in concentration, add 10 mls/Litre Procirc 901 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
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sheet:-

Product Name

Product Number

Procirc 901 Cleaner/Conditioner

901002

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