

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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PREV 3

PROCIRC 9020 ACID CLEANER

INTRODUCTION

Procirc 9020 Acid Cleaner is a concentrated acid cleaner which, when diluted with water, exhibits a powerful cleaning action, removing passivates, oxides, fingerprints, general soils from copper, prior to oxide processing and electroless copper plating.

Procirc 9020 can be used in spray or immersion applications.

BENEFITS

Passivation removed prior to oxide processing.

High detergency for excellent cleaning.

Free rinsing

Concentrate - economical.

SOLUTION MAKE-UP

Procirc 9020 Acid Cleaner 20% v/v with water.

OPERATING DATA

Temperature	30 - 50 deg C
Time	30 secs - 2 mins
Agitation	Recommended in immersion
Extraction	Recommended
Foam	The solution is designed to run with a slight foam blanket.

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EQUIPMENT

Tanks Polypropylene, Polyethylene, Unplasticised PVC.

Heaters Teflon coated, PTFE.

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

INSTALLATION

It is essential that the tanks to be used for Procirc 9020 Acid Cleaner are cleaned and leached thoroughly before any product is added.

The final leach should be performed using 10%v/v solution of Hydrochloric Acid (36%) and should be held in the tank for a minimum of 12 hours at approximately 40 deg C.

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

1. Fill the clean empty tank with the appropriate amount of water.
2. Add the Procirc 9020 Acid Cleaner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Clean in Procirc 9020 acid cleaner.
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 9020 Acid Cleaner.

ANALYSIS METHOD

Procirc 9020 acid cleaner concentration

REAGENTS

0.1N Sodium Hydroxide
Phenolphthalein Indicator.

Method

1. Pipette 2ml sample of working solution into a 250ml conical flask.
2. Add approximately 100mls water and mix.
3. Add 3 - 4 drops of Phenolphthalein Indicator and mix well.
4. Titrate to the first permanent pink end point using 0.1N Sodium Hydroxide.
5. Record titre = t mls.

Calculation

$t \times 0.96 = \% \text{ v/v concentration.}$

Replenishment

For every 1% drop in concentration, add 10mls/l Procirc 9020 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 9020 Acid Cleaner	907007

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