

PROCIRC 9624

DM ACCELERATOR

INTRODUCTION

Procirc 9624 DM Accelerator is used after the Procirc 9622 DM Activator to improve the adhesion and coverage of copper plating.

BENEFITS

- Improved conductivity.
- Improved copper adhesion.

SOLUTION MAKE -UP

Procirc 9624 Part A	430ml/L
Procirc 9624 Part B	100ml/L
Procirc 9624 Part C	10ml/L

OPERATING DATA

Procirc 9624 Part A	340 – 430ml/L
Procirc 9624 Part B	80 - 100ml/L
Procirc 9624 Part C	9 - 10ml/L
Time	7 mins
Temperature	55 - 65°C
Agitation	Work movement.

EQUIPMENT

Tanks	Polypropylene or PVC lined tanks.
Heaters	PTFE.
Filtration	5 – 10µm cartridges
Extraction	Recommended

INSTALLATION

It is essential that the tanks to be used for Procirc 9624 DM Accelerator are thoroughly cleaned and leached before any product is introduced.

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



1. Add 400ml/L deionised water to the tank.
2. Add in order the Procirc 9624 Parts A, B and C.
3. Top up to volume with deionised water and mix well.
4. Heat to operating temperature.

MAINTENANCE AND CONTROL

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

The bath can be replenished on a throughput basis. For every 10m² panel processed add:

Procirc 9624 Part A 860ml
Procirc 9624 Part B 200ml
Procirc 9624 Part C 20ml

The solution should be changed when 50m²/L panel has been processed.

ANALYSIS METHODS

1. Procirc 9624 Parts A and B

Reagents

Methyl orange indicator
0.1N hydrochloric acid (Standard volumetric solution)
8%w/v barium chloride solution
Phenolphthalein indicator

Method

1. Pipette 0.5 ml of the bath into a 250 ml conical flask.
2. Add 100 ml D.I. water
3. Add 2-3 drops of methyl orange indicator.
4. Titrate with 0.1N hydrochloric acid to a red end point.
5. Record titre = A mls.
6. Pipette 0.5 ml of the bath solution into a 250 ml conical flask.
7. Add 100ml DI water.
8. Add 10ml barium chloride solution.
9. Add a few drops of phenolphthalein indicator.
10. Titrate slowly with 0.1N hydrochloric acid until the pink colour disappears.
11. Record titre = B mls.

Calculation

$(A - B) \times 19.8 = \text{ml/L Procirc 9624 part A}$

$B \times 17.2 = \text{ml/L Procirc 9624 Part B}$



2. Procirc 9624 Part C

Reagents

Acetic acid
Ammonium acetate
PAR indicator
0.01M (0.02N) EDTA (Standard Volumetric Solution)

Method

1. Pipette 25 ml of the bath into a 250 ml conical flask.
2. Add 100 ml D.I. water
3. Add acetic acid until the solution is just acid.
4. Add 2g ammonium acetate.
5. Add 2-3 drops of PAR indicator and titrate with 0.01M EDTA to a yellow/orange end point.
6. Record titre = t mls

Calculation

$t \times 1.27 = \text{ml/L Procirc 9624 Part C}$

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 9624 Part A	965007
Procirc 9624 Part B	965008
Procirc 9624 Part C	967024
Procirc 9622 Part P	967022

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