

PROCIRC 1310

Copper Polish

INTRODUCTION

Procirc 1310 Copper Polish is an acidic process designed to quickly polish copper and brass surfaces.

BENEFITS

- Rapid polishing.
- Non-complexing.
- Non-nitric.

SOLUTION MAKE -UP

Procirc 1310 Part A	100ml/L
Procirc 1310 Part B	250ml/L
DI Water	to 1 litre

OPERATING DATA

Temperature	Copper 40 – 55°C Brass 27 – 45°C
Time	0.5 – 5 minutes

EQUIPMENT

Tanks	Polypropylene, PVC or polyethylene
Heaters	PTFE coated with thermostatic control

INSTALLATION

It is essential that the tanks to be used for Procirc 1310 Copper Polish are thoroughly cleaned and leached before any product is introduced.

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

1. Half fill tank with DI water.
2. Add the required volume of Procirc 1310 Parts A and B.
3. Make up to volume with DI water and mix thoroughly.
4. Heat to operating temperature.



PROCESS SEQUENCE

1. Alkaline clean.
2. Rinse.
3. Procirc 1310 Copper Polish.
4. Rinse.
5. 5% sulphuric acid dip.
6. Rinse.
7. Continue depending on application.

MAINTENANCE AND CONTROL

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

Discard the solution when copper reaches 3gm/L.

ANALYSIS METHOD

Procirc 1310 Part A

Reagents

0.1N sodium hydroxide (standard volumetric solution)

Methyl red indicator

Method

1. Pipette a 5.0ml aliquot of the solution into a 250ml conical flask.
2. Add 100ml DI water.
3. Add 6-8 drops methyl red indicator.
4. Titrate to a yellow end point using 0.1N sodium hydroxide.
5. Record titre = t mls.

Calculation

$t \times 11.1 = \text{ml/L MFS 1310 Part A}$

Procirc 1310 Part B

Reagents

0.1N potassium permanganate (standard volumetric solution)

25% v/v sulphuric acid

Method

1. Pipette a 1.0ml sample of the working solution into a 250ml conical flask.
2. Add 50ml DI water and 10ml 25% v/v sulphuric acid.
3. Titrate to a permanent pink end point with 0.1N potassium permanganate.
4. Record titre = t mls

Calculation

$t \times 5.6 = \text{ ml/L Procirc 1310 Part B.}$

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 1310 Part A	907033
Procirc 1310 Part B	907034

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