

CUPROSHIELD CU

ANTITARNISH

INTRODUCTION

Cuproshield CU is a water based treatment for copper, copper alloys, silver and silver alloys. After treatment the surface is resistant to tarnish, sulphides and wear resistance is improved.

BENEFITS

- Protection against tarnish and sulphides
- Low contact resistance
- RoHS compliant
- Suitable for multiple solder operations

SOLUTION MAKE -UP

It is essential that the tanks to be used for Cuproshield CU are thoroughly cleaned and leached before any chemistry is introduced. If in any doubt as to the cleaning procedure please contact PMD Chemicals Technical Department.

Cuproshield CU 25 - 200ml/L

1. Add water to tank and heat to 60°C
2. Shake the Cuproshield CU container to mix.
3. Add Cuproshield CU and stir until solution is homogeneous.
4. Allow to cool to operating temperature

OPERATING DATA

Concentration	25 – 200ml/L depending on application
Temperature	40 - 50°C
Time	0.5 – 4 mins
Agitation	Solution movement
Extraction	Required



EQUIPMENT

Tanks	Stainless steel or polypropylene
Heaters	PTFE with thermostatic control

MAINTENANCE AND CONTROL

The solution should be analysed regularly and replenished as required.

ANALYSIS METHOD

Reagents

Cuproshield CU

Method

1. Prepare a 200ml/L standard of Cuproshield CU
2. Label 2 100ml volumetric flasks as S and W.
3. Pipette 1ml of standard and working solution in to flasks S and W respectively.
4. Make up to mark with DI water and mix thoroughly.
5. Set UV spectrophotometer to 270nm
6. Zero with water blank
7. Measure absorbance of standard and record as S
8. Measure absorbance of solution and record as W
9. Calculate the concentration as detailed below.

Calculation

$$\frac{W \times 200}{S} = \text{ml/L Cuproshield CU}$$



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
Cuproshield CU	964020

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